

Sysmex CS 5100 Flag Interpretations

By

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What do I do with a sample error

- Evaluate Sample Integrity
 - Tube Fill
 - Check for Lipemia, Hemolysis
- Look at Reaction Curve, Evaluation Data and Error code
- Do you see Typical Clot Progression?
- Does the 50% value fit the reaction curve?

A. EVALUATION ALGORITHM

3 evaluation algorithms –

- The Percentage Detection Method for Coagulation Assays
- The Rate Method for Chromogenic Assays
- Immunoassays and the VLin Integral Method for Immunoassays.

Each evaluation algorithm is specified in the preset configuration of the test protocol. Criteria are established to determine either the point of specific clotting time or optical density for the kinetic reaction under measurement.

Evaluation Method	Description
Percentage Detection Method	This method is used for the evaluation of Clotting Assays. The clotting time is measured.
Rate Method	This method is used for the evaluation of Chromogenic Assays and Immunoassays. The change in light absorbance is calculated.
VLin Integral Method	This method is used for the evaluation of Immunoassays. The change in light absorbance is calculated.

Percentage Detection Method

1. **Baseline (0%):** After a pre-defined “Mask Time” a search for the reaction start point begins, this is the baseline.

The transmitted light at the baseline (bH) is defined as 0%.

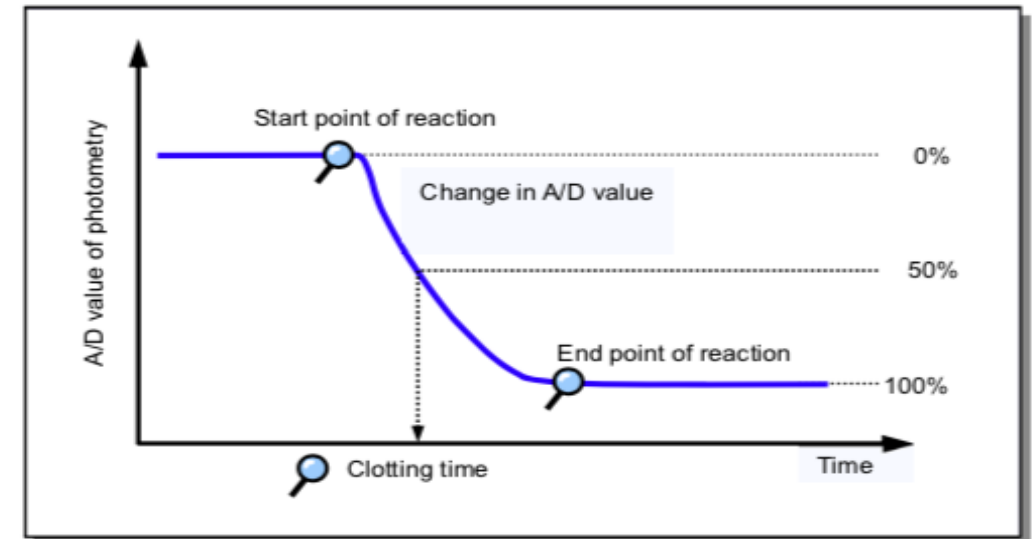
2. **Clotting Phase:** The time of the reaction between the baseline and the endpoint; when transmitted light is changing due to active clot formation.

3. **Endpoint (100%):** The CS software identifies the coagulation end point [when maximum measurement time is met].

- The transmitted light at the endpoint is defined as 100%

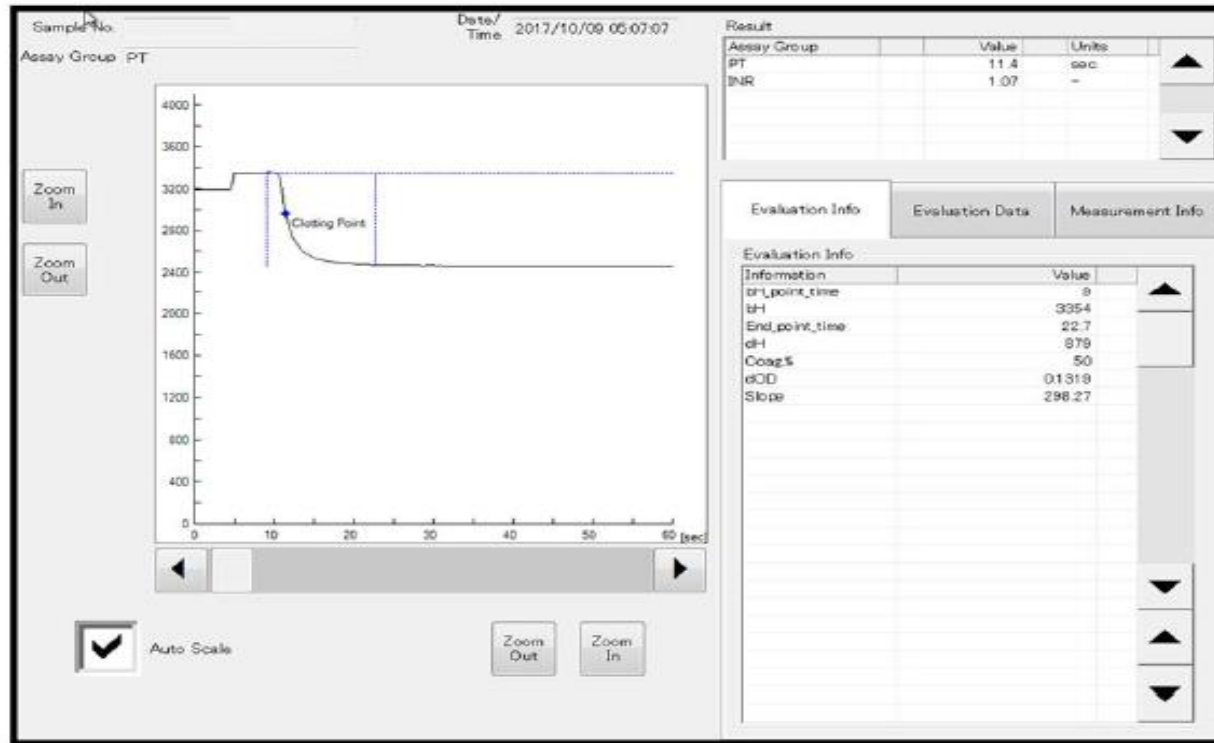
4. **Clotting Point (50%):** The point at which the clotting time (result) is determined. This can be set between 0% and 100%; most assays use 50%.

- dH is the change in transmitted light value between the baseline and the end point
- submitted light is changing due to active clot formation



Example 1: Typical PT

Transmitted Light



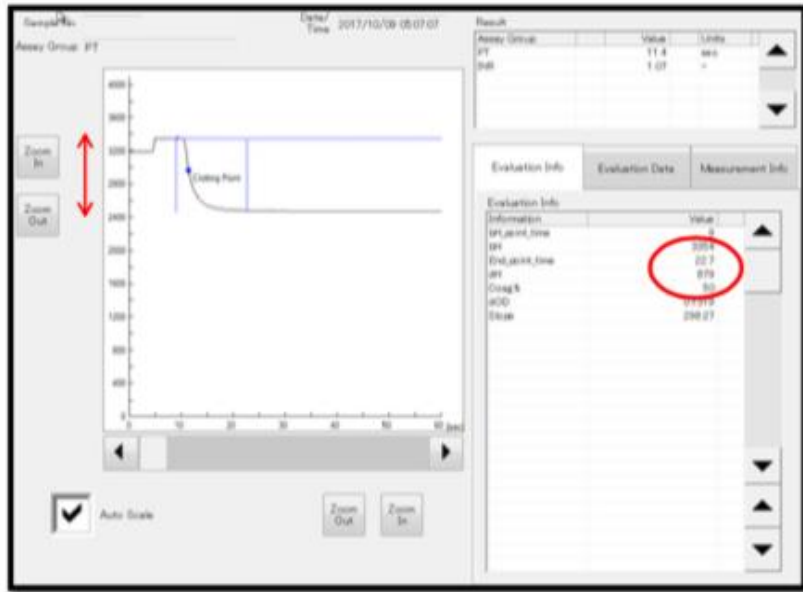
Clotting Time (sec)

Evaluation Info		Evaluation Data		Measurement Info			
%	Sec	%	Sec	%	Sec		
1	10.3	26	11.0	51	11.5	76	12.6
2	10.4	27	11.0	52	11.5	77	12.7
3	10.5	28	11.0	53	11.5	78	12.8
4	10.5	29	11.0	54	11.6	79	12.9
5	10.6	30	11.0	55	11.6	80	13.0
6	10.6	31	11.0	56	11.6	81	13.0
7	10.6	32	11.1	57	11.7	82	13.1
8	10.7	33	11.1	58	11.7	83	13.3
9	10.7	34	11.1	59	11.8	84	13.4
10	10.7	35	11.1	60	11.8	85	13.5
11	10.7	36	11.2	61	11.9	86	13.6
12	10.8	37	11.2	62	11.9	87	13.7
13	10.8	38	11.2	63	11.9	88	13.9
14	10.8	39	11.2	64	11.9	89	14.1
15	10.8	40	11.2	65	12.0	90	14.3
16	10.9	41	11.3	66	12.0	91	14.6
17	10.9	42	11.3	67	12.1	92	14.8
18	10.9	43	11.3	68	12.1	93	15.1
19	10.9	44	11.3	69	12.2	94	15.4
20	10.9	45	11.4	70	12.3	95	15.9
21	10.9	46	11.4	71	12.3	96	16.4
22	10.9	47	11.4	72	12.4	97	17.1
23	10.9	48	11.4	73	12.4	98	18.2
24	10.9	49	11.4	74	12.5	99	20.0
25	10.9	50	11.4	75	12.5	100	22.8

Normal PT: Influence of Fibrinogen



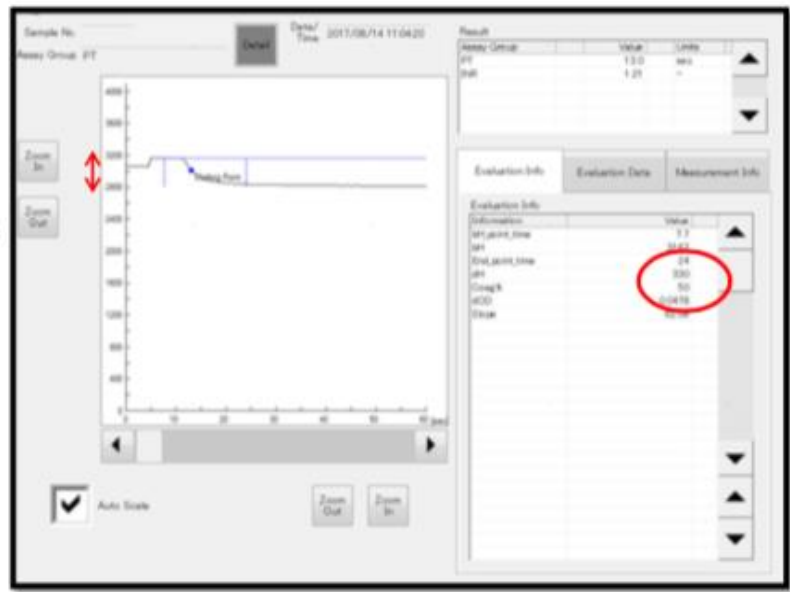
Transmitted Light



Clotting Time (sec)

PT from sample with Normal Fibrinogen Level
dH =879

Transmitted Light

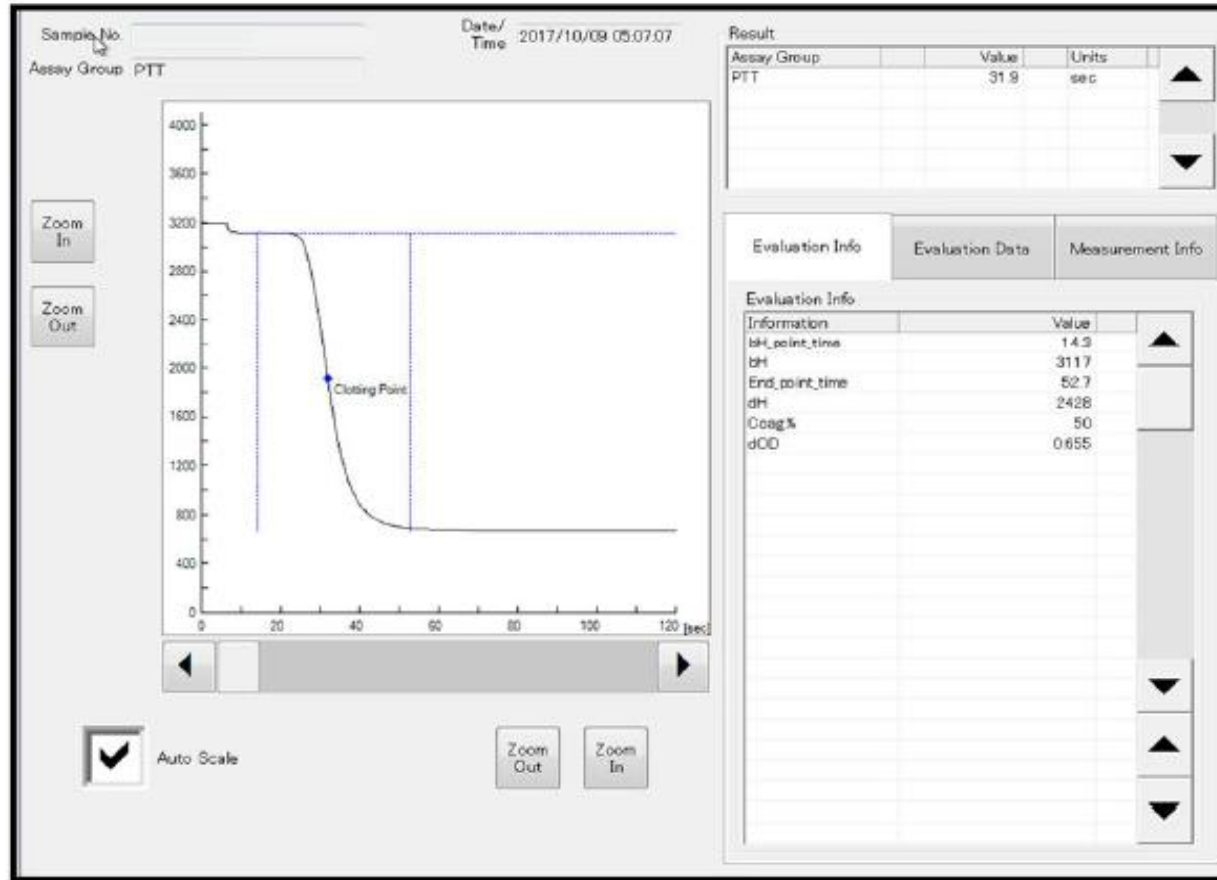


Clotting Time (sec)

PT from sample with Low Fibrinogen Level
dH=330

Example 3: Typical PTT

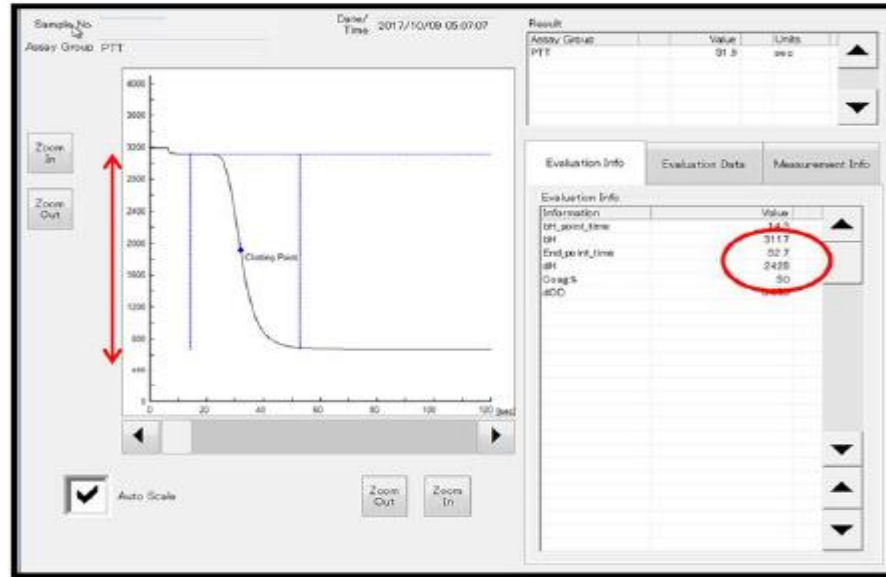
Transmitted Light



Clotting Time (sec)

Evaluation Info		Evaluation Data		Measurement Info			
%	Sec	%	Sec	%	Sec		
1	23.9	26	29.3	51	31.9	76	35.3
2	24.8	27	29.4	52	32.1	77	35.5
3	25.4	28	29.6	53	32.2	78	35.6
4	25.8	29	29.7	54	32.3	79	35.9
5	26.0	30	29.8	55	32.4	80	36.1
6	26.3	31	29.9	56	32.5	81	36.3
7	26.5	32	30.0	57	32.6	82	36.5
8	26.7	33	30.1	58	32.8	83	36.7
9	26.9	34	30.2	59	32.8	84	37.0
10	27.1	35	30.3	60	33.0	85	37.3
11	27.2	36	30.5	61	33.0	86	37.6
12	27.4	37	30.5	62	33.2	87	37.9
13	27.6	38	30.6	63	33.3	88	38.2
14	27.7	39	30.8	64	33.4	89	38.6
15	27.9	40	30.8	65	33.6	90	39.0
16	28.0	41	31.0	66	33.7	91	39.4
17	28.2	42	31.0	67	33.9	92	39.9
18	28.3	43	31.1	68	34.0	93	40.4
19	28.5	44	31.3	69	34.2	94	41.1
20	28.5	45	31.3	70	34.3	95	41.9
21	28.7	46	31.4	71	34.5	96	42.7
22	28.8	47	31.6	72	34.6	97	43.9
23	29.0	48	31.6	73	34.7	98	45.5
24	29.1	49	31.7	74	34.9	99	47.8
25	29.2	50	31.9	75	35.1	100	52.7

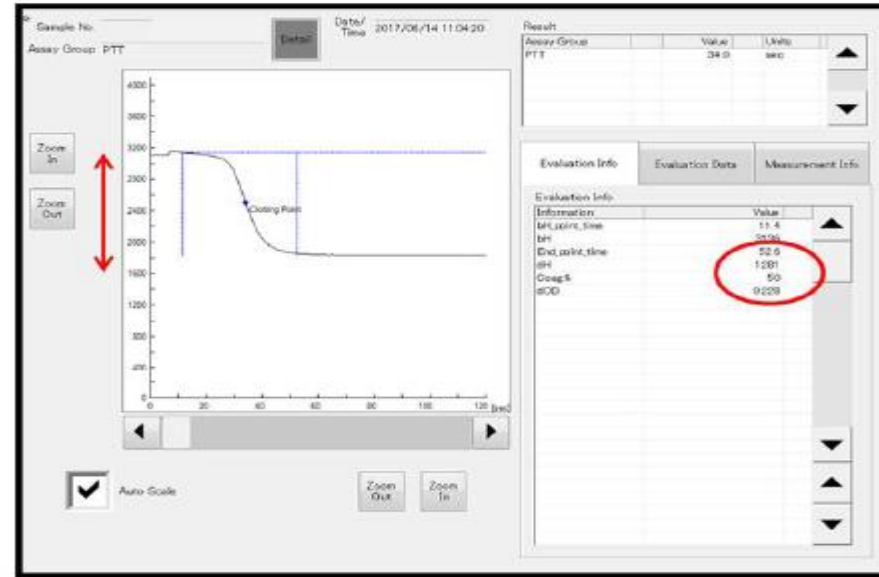
Transmitted Light



Clotting Time (sec)

PTT from sample with Normal Fibrinogen Level
dH=2428

Transmitted Light



Clotting Time (sec)

PTT from sample with Low Fibrinogen Level
dH= 1281

A. ERROR MESSAGES:

HL Check for All assays

- 1. Hemolytic Sample Error**
- 2. Lipemic Sample Error**

for Clotting assays

- 1. Slight Coagulation Error**
- 2. Analysis Time Over Error**
- 3. Coagulation Curve Error**
- 4. Early Reaction Error**
- 5. Noise Error**
- 6. Turbidity Level Over**
- 7. No Coagulation**
- 8. Flat Curve**
- 9. Range Over**
- 10. Trans Light High Error**

for Chromogenic assays and Immunoassays

- 1. Trans Light Low Error**
- 2. Trans Light High Error**
- 3. No Linearity Error**
- 4. Reaction Curve Error**
- 5. Range Over (Antigen Excess) Error**
- 6. No polynomial adjustment Error**
- 7. Range is non-linear Error**

IMPORTANT NOTES;

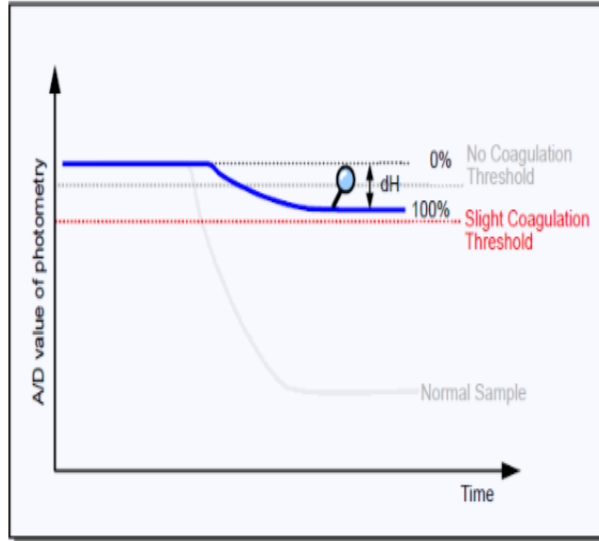
- **Before Re-analysis, ALWAYS**
 - **Check the sample** for possible anticoagulant [e.g. heparin] contamination, hemolysis, lipemia, and clot.
 - **Microfuge if lipemic or hemolyzed,**
- **if a sample is ordered in micro analysis mode,**
 - **re-analysis rules will not be applied, and the longer Measurement Time (Sub)/ dilutions will need to be requested manually.**

1. Slight Coagulation (SC) Error

Joblist Flagged numeric result

Cause A very weak coagulation reaction.
This may be due to a low fibrinogen concentration, factor deficiency, or inhibitor.
Possible problem with the reagent.

Kinetic • Baseline established
Evaluation • Clotting phase generally is not as pronounced as typical
• An endpoint is observed
• dH will be decreased.
The dH limit to trigger this flag is assay dependent.



Action Steps for "Slight Coagulation"

1. **Reanalyze** the sample, if ran in micro.

--Results **without an asterisk (*)**, REPORT the result,

--if **“slight coagulation”** occurs again for **PT/PTT**, - DO NOT REPORT

---For **Fibrinogen**, change the dilution ratio and reanalyze, if repeat comes out with the same flag, along with other flags like ‘Lower report Limit over and dilution ratio was changed’—REPORT the result.

Example 1

First Run

Status: Review

Joblist Result: *16.7 (PT)

Flag: Slight Coag

Lipemia

Action: re-analyze after spin

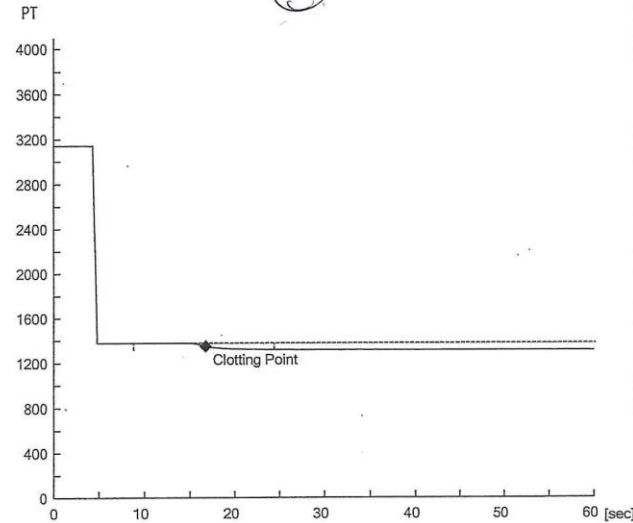
CS-5100 sad/haq

***** Graph Detail Print *****

Elise: Elise

Sample No: MR. BURGER M Seq: 1
 Rack Tube Pos: 000003-02 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Validated on: 08/22/2019 09:18:25
 Analysis Mode: Normal Cp Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: Lip Meas. Date: 08/22/2019 09:02:44

④
First Run



Result
 PT * 16.7 sec
 PT INR * 1.65

Evaluation Info.
 bh_point_time 8.8
 bh 1378
 End_point_time 24.4
 dh 59
 Coag. % 50
 dOD 0.0190
 Slope 14.25

Measurement Info.
 Temperature 37.0
 Channel No. 12
 Management ID 3023
 Dilution 1 / 1
 Reagent Lot PT Inn 549727
 Elapsed Time PT Inn 19

Detail
 0002.0000.0000 Slight Coagulation
 0002.0000.0000 Slight Coagulation

microfuge.
After re-spin, spin & re-run
If no interference Result without flag ()*
OK to report. (PT/PTT)

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 3
 Vol Detection Level 55.9
 Calibration Curve ID 36
 QC Performed Date 08/22/2019
 08:55:37

Evaluation Data				Reagent Table Temp.			
1%	9.0	21%	15.8	41%	16.5	61%	17.1
2%	14.5	22%	15.8	42%	16.5	62%	17.2
3%	14.5	23%	15.9	43%	16.5	63%	17.2
4%	15.0	24%	16.0	44%	16.5	64%	17.2
5%	15.0	25%	16.0	45%	16.6	65%	17.3
6%	15.3	26%	16.0	46%	16.6	66%	17.3
7%	15.4	27%	16.0	47%	16.6	67%	17.5
8%	15.4	28%	16.1	48%	16.7	68%	17.6
9%	15.5	29%	16.1	49%	16.7	69%	17.6
10%	15.5	30%	16.1	50%	16.7	70%	17.7
11%	15.6	31%	16.1	51%	16.7	71%	17.7
12%	15.6	32%	16.1	52%	16.7	72%	17.9
13%	15.6	33%	16.2	53%	16.8	73%	18.0
14%	15.6	34%	16.2	54%	16.8	74%	18.0
15%	15.6	35%	16.2	55%	16.8	75%	18.2
16%	15.7	36%	16.3	56%	16.9	76%	18.2
17%	15.7	37%	16.3	57%	16.9	77%	18.2
18%	15.7	38%	16.3	58%	17.0	78%	18.4
19%	15.8	39%	16.4	59%	17.0	79%	18.4
20%	15.8	40%	16.4	60%	17.1	80%	18.6
						81%	18.6
						82%	18.8
						83%	18.8
						84%	19.1
						85%	19.3
						86%	19.3
						87%	19.5
						88%	19.5
						89%	19.7
						90%	20.6
						91%	20.6
						92%	21.0
						93%	21.0
						94%	21.3
						95%	21.4
						96%	21.4
						97%	22.5
						98%	22.6
						99%	23.5
						100%	24.5

Example 1

After Spin

Result = *16.7 (PT)

Flag = Slight Coag again

Curve = weak clot

Action = Do Not Report

CS-5100 sad/haq

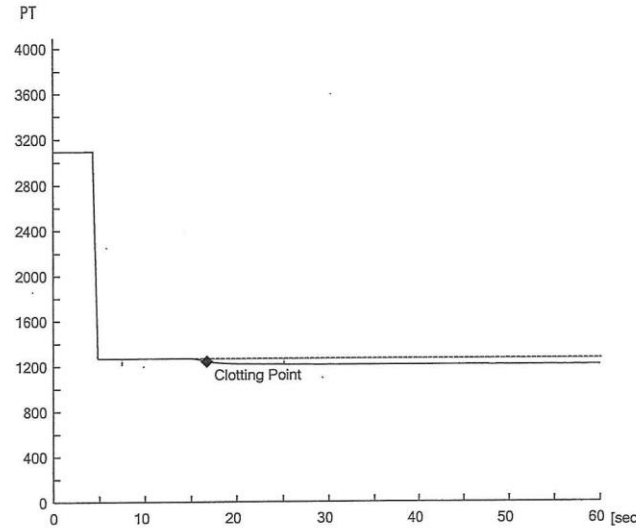
**** Graph Detail Print ****

Sample No: MR. BURGER M Seq: 1
 Rack Tube Pos: 000003-02 Re-analysis flag: Re-analysis
 Status: Review Validate: Performed
 S. Code: Validated on: 08/22/2019 09:18:25
 Analysis Mode: Normal Cp Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: Lip Meas. Date: 08/22/2019 09:02:44

afa

Elise: Elise

Repeat
From SPIN



Result
 PT * 16.7 sec
 PT INR * 1.65

DO NOT REPORT
Same result

Evaluation Info.

bH_point_time 7.5
 bH 1269
 End_point_time 25.1
 dH 53
 Coag. % 50
 dOD 0.0185
 Slope 13.09

Measurement Info.

Temperature 37.0
 Channel No. 3
 Management ID 3023
 Dilution 1 / 1
 Reagent Lot PT Inn 549727
 Elapsed Time PT Inn 19

Detail
 0002.0000.0000 Slight Coagulation
 0002.0000.0000 Slight Coagulation

OK
(low dil)

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 3
 Vol Detection Level 55.9
 Calibration Curve ID 36
 QC Performed Date 08/22/2019
 08:55:37

Evaluation Data

1% 14.5
 2% 14.9
 3% 14.9
 4% 15.2
 5% 15.2
 6% 15.4
 7% 15.4
 8% 15.5
 9% 15.5
 10% 15.6
 11% 15.6
 12% 15.6
 13% 15.6
 14% 15.6
 15% 15.6
 16% 15.7
 17% 15.7
 18% 15.7
 19% 15.8
 20% 15.8

21% 15.8
 22% 15.8
 23% 15.9
 24% 15.9
 25% 16.0
 26% 16.0
 27% 16.0
 28% 16.0
 29% 16.1
 30% 16.1
 31% 16.1
 32% 16.1
 33% 16.1
 34% 16.2
 35% 16.2
 36% 16.2
 37% 16.2
 38% 16.3
 39% 16.3
 40% 16.4

→

41% 16.4
 42% 16.4
 43% 16.4
 44% 16.5
 45% 16.5
 46% 16.6
 47% 16.6
 48% 16.6
 49% 16.6
 50% 16.7
 51% 16.7
 52% 16.7
 53% 16.8
 54% 16.8
 55% 16.8
 56% 16.8
 57% 16.9
 58% 16.9
 59% 17.0
 60% 17.0

Reagent Table Temp. 10.0

61% 17.1
 62% 17.1
 63% 17.2
 64% 17.2
 65% 17.3
 66% 17.3
 67% 17.5
 68% 17.6
 69% 17.6
 70% 17.7
 71% 17.7
 72% 17.8
 73% 17.8
 74% 18.0
 75% 18.0
 76% 18.2
 77% 18.2
 78% 18.4
 79% 18.4
 80% 18.6

81% 18.6
 82% 18.8
 83% 18.8
 84% 19.1
 85% 19.3
 86% 19.3
 87% 19.5
 88% 19.5
 89% 19.9
 90% 19.9
 91% 20.3
 92% 20.3
 93% 21.4
 94% 21.4
 95% 21.5
 96% 21.5
 97% 22.6
 98% 22.6
 99% 23.0
 100% 25.1

Example 2

Status = Review

Mode= Normal

Fib Result = *50

Flag = slight coag+Lower report

Dilution = 1:1

Fib<80, always reflexed to 4/1 dil
in normal mode

Action = Review 4/1 dil

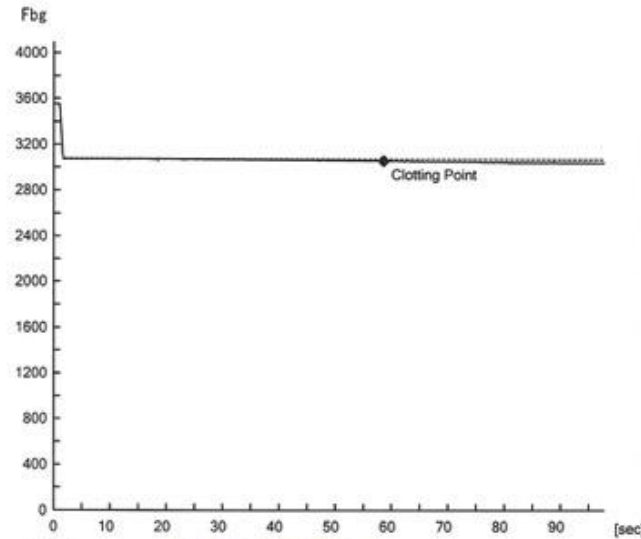
CS-5100 25632-2

***** Graph Detail Print *****

Low Fib

admin: administrator

Sample No: 10145820 B Seq: 1
 Rack Tube Pos: 000002-03 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Validated on: 2020/06/30 13:17:14
 Analysis Mode: Normal Validated by: admin
 Patient Name: CSTWO ZZZYH
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/24 12:24:34



Result
 Fbg sec * 58.6 sec
 Fbg C * 50 mg/dL
To repeat

Evaluation Info.
 bh_point_time 18.5
 bh 3077
 End_point_time 88.9
 dh 28
 Coag. % 50
 dOD 0.0038

Measurement Info.
 Temperature 37.0
 Channel No. 5
 Management ID
 Dilution 1/1
 Reagent Lot OVB 554647
 Fbg 565060
 Elapsed Time OVB 3
 Fbg 0

Detail
 0002.0000.0000 Slight Coagulation
 0002.0000.0000 Slight Coagulation
 0000.6000.0200 Lower Report Limit Over

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level
 Calibration Curve ID 1
 QC Performed Date 2020/06/24
 12:14:33

Evaluation Data				Reagent Table Temp.			
1%	18.5	21%	38.3	41%	54.5	61%	65.2
2%	18.5	22%	41.7	42%	54.5	62%	65.3
3%	18.5	23%	41.7	43%	55.2	63%	65.3
4%	19.6	24%	41.7	44%	55.2	64%	65.3
5%	20.1	25%	46.2	45%	55.2	65%	67.5
6%	20.3	26%	46.3	46%	55.2	66%	68.2
7%	20.3	27%	46.3	47%	55.4	67%	68.3
8%	26.7	28%	46.3	48%	55.4	68%	69.4
9%	27.0	29%	48.2	49%	55.4	69%	69.5
10%	27.3	30%	48.3	50%	58.6	70%	69.6
11%	32.9	31%	48.3	51%	58.7	71%	69.7
12%	33.6	32%	48.3	52%	58.8	72%	72.6
13%	33.6	33%	49.5	53%	58.9	73%	72.6
14%	33.6	34%	49.8	54%	60.9	74%	72.6
15%	37.1	35%	50.3	55%	61.2	75%	74.4
16%	37.2	36%	51.8	56%	61.5	76%	74.4
17%	37.2	37%	51.8	57%	61.6	77%	74.4
18%	38.0	38%	51.8	58%	63.0	78%	74.4
19%	38.1	39%	51.8	59%	63.1	79%	75.3
20%	38.2	40%	54.0	60%	63.1	80%	75.4

Example 2

After Re-analysis

Dilution = 4/1

Fib Result <50

Flagged changed to dil and lower report

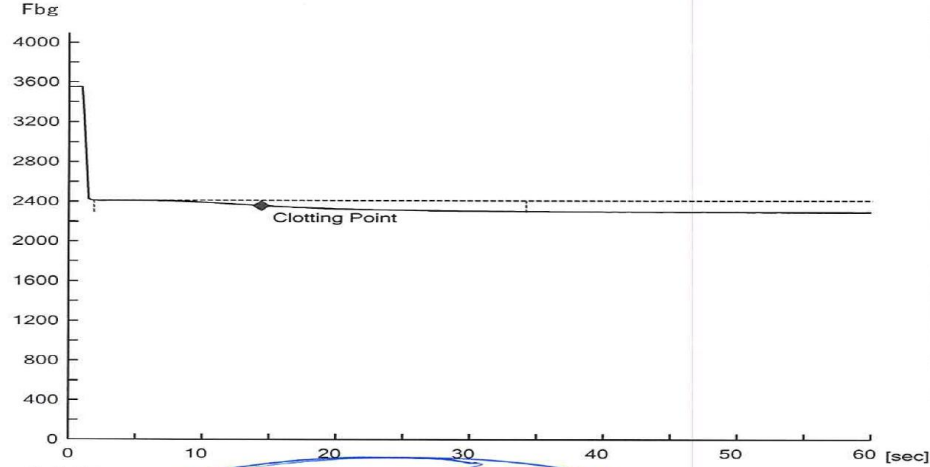
Action = REPORT the result <50

CS-5100 25632-2

***** Graph Detail Print *****

admin : administrator

Sample No: 10145820 B Seq: F
 Rack Tube Pos: 000002-03 Re-analysis flag:
 Status: Review Validate:
 S. Code: Validated on: 2020/06/30 13:17:14
 Analysis Mode: Normal Validated by:
 Patient Name: CSTWO ZZZYH
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/24 12:24:34



Result
 Fbg sec 14.4 sec
 Fbg C < 50 mg/dL

Evaluation Info.
 bh_point_time 1.9
 bh 2411
 End_point_time 34.2
 dH 106
 Coag. % 50
 dOD 0.0195

Measurement Info.
 Temperature 37.0
 Channel No. 5
 Management ID 3321
 Dilution 4 / 1
 Reagent Lot OVB 554647
 Fbg 565060
 Elapsed Time OVB 3
 Fbg 0

Detail
 0000.0000.0000 Dilution Ratio was Changed.
 0000.6000.0200 Lower Report Limit Over

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level
 Calibration Curve ID 1
 QC Performed Date 2020/06/24
 12:14:33

Evaluation Data			
1%	6.2	21%	10.7
2%	6.6	22%	10.8
3%	6.9	23%	10.9
4%	7.5	24%	11.1
5%	7.7	25%	11.1
6%	7.9	26%	11.2
7%	8.4	27%	11.4
8%	8.5	28%	11.5
9%	8.7	29%	11.6
10%	8.8	30%	11.7
11%	9.0	31%	11.9
12%	9.2	32%	12.0
13%	9.4	33%	12.1
14%	9.7	34%	12.4
15%	9.8	35%	12.6
16%	9.9	36%	12.7
17%	10.1	37%	12.8
18%	10.2	38%	12.9
19%	10.4	39%	13.0
20%	10.5	40%	13.1

Reagent Table Temp.			
61%	16.3	81%	20.8
62%	16.4	82%	21.2
63%	16.5	83%	21.5
64%	16.6	84%	22.3
65%	16.7	85%	22.6
66%	16.9	86%	22.9
67%	17.6	87%	23.9
68%	17.8	88%	24.1
69%	18.0	89%	25.0
70%	18.1	90%	25.9
71%	18.2	91%	26.3
72%	18.5	92%	26.8
73%	18.7	93%	27.0
74%	19.0	94%	27.7
75%	19.4	95%	28.7
76%	19.6	96%	29.0
77%	19.7	97%	30.3
78%	19.8	98%	31.3
79%	20.3	99%	31.5
80%	20.6	100%	34.3

25632/01-18 build40

1/1

2020/07/06 12:27

Example 3

Status = Review

Mode= Normal

Fib Result = *50

Flag = slight coag+Lower report

Dilution = 1:1

Fib<80, always reflexed to 4/1 dil
in normal mode

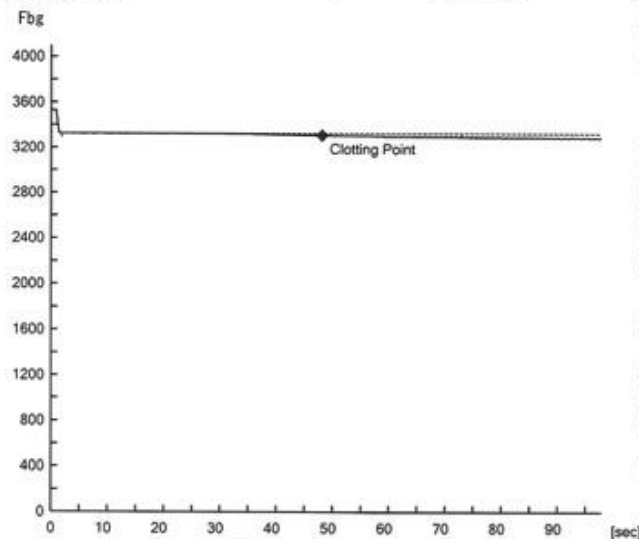
Action = Review 4/1 dil

CS-5100 25618-3

***** Graph Detail Print *****

Low fib admin: administrator

Sample No: 10145888 B Seq: 1
 Rack Tube Pos: 000003-02 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Review Validated on: 2020/06/25 11:48:14
 Analysis Mode: Normal Validated by: admin
 Patient Name: FIBCRIT ZZZYH
 Sample Comment:
 Sample Info: - Meas. Date: 2020/06/25 11:09:39



Result
 Fbg sec * 48.2 sec
 Fbg C * 50 mg/dL

To repeat

Evaluation Info.
 bh_point_time 1.9
 bh 3326
 End_point_time 73.0
 dH 29
 Coag.% 50
 dDD 0.0038

Measurement Info.
 Temperature 37.0
 Channel No. 2
 Management ID 3321
 Dilution 1 / 1
 Reagent Lot OVB 554647
 Fbg 565060
 Elapsed Time OVB 0
 Fbg 2

Detail
 0002.0000.0000 Slight Coagulation
 0002.0000.0000 Slight Coagulation
 0000.6000.0200 Lower Report Limit Over

Hem Detection Level 0
 Ict Detection Level 0
 Lip Detection Level 0
 Vol Detection Level 1
 Calibration Curve ID 1
 QC Performed Date 2020/06/25
 08:53:20

Evaluation Data

1%	2.1	21%	36.9	41%	42.9
2%	2.2	22%	37.0	42%	44.4
3%	2.3	23%	37.0	43%	44.4
4%	4.1	24%	37.0	44%	44.4
5%	4.7	25%	38.1	45%	47.2
6%	4.8	26%	38.1	46%	47.2
7%	26.7	27%	38.1	47%	47.2
8%	27.1	28%	38.3	48%	47.2
9%	27.2	29%	38.3	49%	48.1
10%	27.2	30%	38.3	50%	48.2
11%	30.8	31%	38.3	51%	48.3
12%	30.9	32%	39.9	52%	49.4
13%	30.9	33%	39.9	53%	49.5
14%	32.8	34%	39.9	54%	49.5
15%	32.8	35%	41.3	55%	49.5
16%	32.8	36%	41.8	56%	50.3
17%	32.8	37%	41.9	57%	50.6
18%	35.9	38%	42.9	58%	50.7
19%	35.9	39%	42.9	59%	51.9
20%	35.9	40%	42.9	60%	52.0

Reagent Table Temp.	10.0		
61%	52.1	81%	61.9
62%	52.2	82%	61.9
63%	53.6	83%	64.1
64%	53.6	84%	64.1
65%	53.6	85%	64.1
66%	55.4	86%	64.1
67%	56.0	87%	65.0
68%	56.1	88%	65.1
69%	57.2	89%	65.2
70%	57.2	90%	66.8
71%	57.2	91%	66.8
72%	57.2	92%	66.8
73%	58.9	93%	66.8
74%	58.9	94%	70.4
75%	58.9	95%	70.8
76%	59.0	96%	70.8
77%	59.0	97%	72.3
78%	59.0	98%	72.3
79%	59.0	99%	72.3
80%	61.8	100%	73.1

Example 3

After Re-analysis

Dilution = 4/1

Fib Result <50

Flag changed to dil and
lower report flag

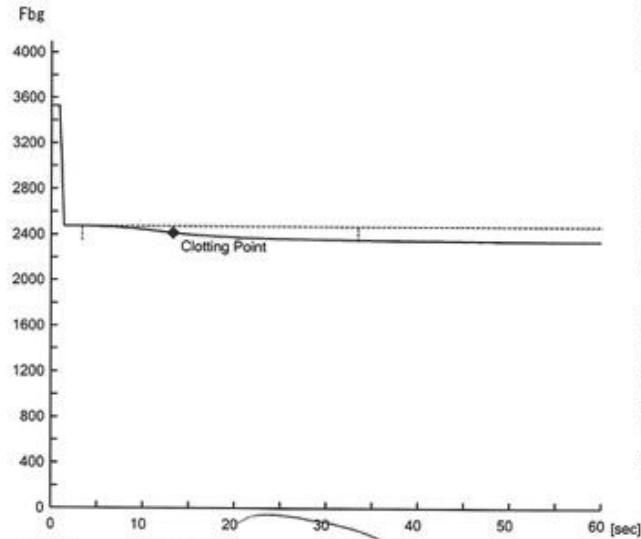
Action = REPORT the result <50

CS-5100 25618-3

**** Graph Detail Print ****

admin: administrator

Sample No: 10145888 B Seq: F
 Rack Tube Pos: 000003-02 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Normal Validated on: 2020/06/25 11:48:14
 Analysis Mode: Normal Validated by: admin
 Patient Name: FIBCRIT ZZZYH
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/25 11:09:39



Result
 Fbg sec d 13.3 sec
 Fbg C < 50 ng/dl

OK

Evaluation Info.
 bh_point_time 3.4
 bh 2477
 End_point_time 33.5
 dh 118
 Coag. % 50
 dOD 0.0210

Measurement Info.
 Temperature 37.0
 Channel No. 2
 Management ID 3321
 Dilution 4 / 1
 Reagent Lot OVB 554647
 Fbg 565060
 Elapsed Time OVB 0
 Fbg 2

Detail
 0000.0000.0000
 0000.6000.0200
 Dilution Ratio was Changed.
 Lower Report Limit Over

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level
 Calibration Curve ID 1
 QC Performed Date 2020/06/25
 08:53:20

Evaluation Data

1%	4.3	21%	9.4	41%	12.1
2%	5.0	22%	9.5	42%	12.2
3%	5.2	23%	9.7	43%	12.2
4%	5.5	24%	9.9	44%	12.3
5%	5.9	25%	10.1	45%	12.5
6%	6.7	26%	10.3	46%	12.7
7%	6.9	27%	10.4	47%	12.8
8%	7.2	28%	10.5	48%	13.0
9%	7.3	29%	10.6	49%	13.1
10%	7.5	30%	10.7	50%	13.3
11%	7.6	31%	10.8	51%	13.5
12%	8.0	32%	10.9	52%	13.6
13%	8.2	33%	11.0	53%	13.7
14%	8.3	34%	11.2	54%	13.8
15%	8.6	35%	11.3	55%	13.9
16%	8.7	36%	11.4	56%	14.2
17%	8.9	37%	11.5	57%	14.4
18%	9.0	38%	11.6	58%	14.5
19%	9.1	39%	11.9	59%	14.7
20%	9.3	40%	12.0	60%	14.8

Reagent Table Temp. 10.1

61%	14.9	81%	19.8
62%	15.1	82%	20.0
63%	15.3	83%	20.3
64%	15.4	84%	21.2
65%	15.5	85%	21.6
66%	15.7	86%	21.7
67%	16.1	87%	22.4
68%	16.3	88%	22.8
69%	16.6	89%	23.6
70%	16.8	90%	23.9
71%	17.0	91%	24.3
72%	17.1	92%	25.5
73%	17.4	93%	25.9
74%	17.8	94%	26.4
75%	18.0	95%	28.0
76%	18.2	96%	28.4
77%	18.4	97%	29.5
78%	18.9	98%	30.5
79%	19.2	99%	31.7
80%	19.6	100%	33.6

25618/01-18 bui ld40

1/1

2020/06/30 13:25

***** Graph Detail Print *****

Sample No: ~~000001-03~~ B
 Rack Tube Pos: 000001-03
 Status: Review
 S. Code:
 Analysis Mode: Micro
 Patient Name:
 Sample Comment:
 Sample Info. : -

Seq: F
 Re-analysis flag:
 Validate: Performed
 Validated on : 2020/06/30 09:41:34
 Validated by : SYSTEM
 Meas. Date: 2020/06/30 09:36:32

After changing dilution

Example 4

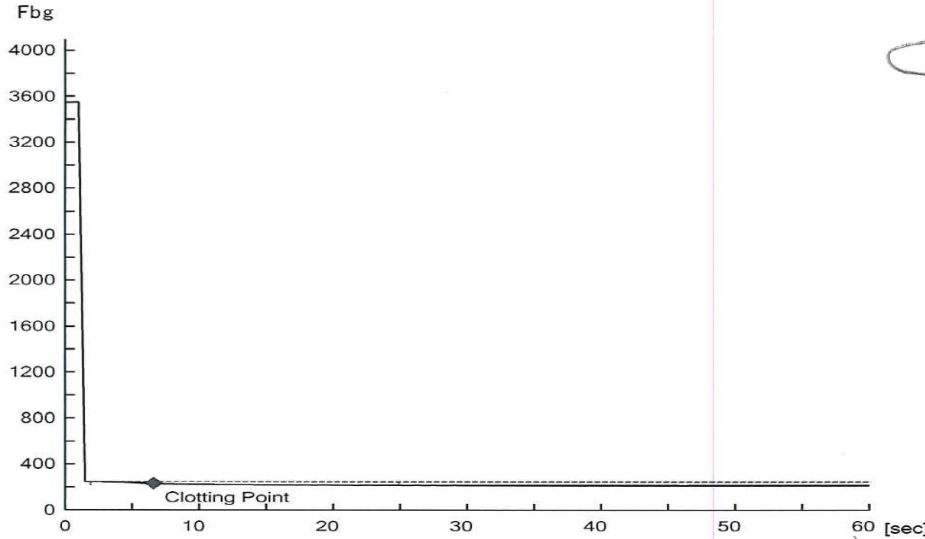
After Re-analysis

Dilution = 4/1

Fib Result = *80

Flag = slight coag +
 Dilution ratio

Action = REPORT
 Fib=80



Detail
 0002.0000.0000 Slight Coagulation
 0000.0000.0000 Dilution Ratio was Changed.
 0002.0000.0000 Slight Coagulation

Result
 Fbg-sec * 6.6 sec
 Fbg C * 80 mg/dL

OK to report

Evaluation Info.
 bH_point_time 1.9
 bH 246
 End_point_time 24.9
 dH 29
 Coag. % 50
 dOD 0.0525

Measurement Info.
 Temperature 37.0
 Channel No. 5
 Management ID 3321
 Dilution 4 / 1
 Reagent Lot 0VB 554672
 Fbg 565060
 Elapsed Time 0VB 1
 Fbg 1

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID 1
 QC Performed Date 2020/06/30
 08:34:28

Evaluation Data

1%	2.4	21%	4.6	41%	5.8
2%	2.4	22%	4.6	42%	6.0
3%	2.4	23%	4.6	43%	6.0
4%	2.7	24%	4.6	44%	6.0
5%	2.7	25%	4.8	45%	6.2
6%	2.7	26%	4.8	46%	6.2
7%	3.0	27%	4.8	47%	6.2
8%	3.0	28%	4.9	48%	6.2
9%	3.0	29%	4.9	49%	6.6
10%	3.0	30%	4.9	50%	6.6
11%	3.7	31%	4.9	51%	6.6
12%	3.7	32%	5.1	52%	6.9
13%	3.7	33%	5.1	53%	6.9
14%	4.1	34%	5.1	54%	6.9
15%	4.1	35%	5.5	55%	6.9
16%	4.1	36%	5.5	56%	7.2
17%	4.1	37%	5.5	57%	7.2
18%	4.4	38%	5.8	58%	7.2
19%	4.4	39%	5.8	59%	7.6
20%	4.4	40%	5.8	60%	7.6

Reagent Table Temp.	10.1		
61%	7.6	81%	12.2
62%	7.6	82%	12.2
63%	8.0	83%	13.9
64%	8.0	84%	13.9
65%	8.0	85%	13.9
66%	8.7	86%	13.9
67%	8.7	87%	16.9
68%	8.7	88%	17.0
69%	9.0	89%	17.1
70%	9.0	90%	19.6
71%	9.0	91%	19.7
72%	9.0	92%	19.7
73%	10.1	93%	19.7
74%	10.1	94%	21.5
75%	10.1	95%	21.8
76%	11.0	96%	22.1
77%	11.0	97%	24.9
78%	11.0	98%	25.0
79%	11.0	99%	25.0
80%	12.2	100%	25.0

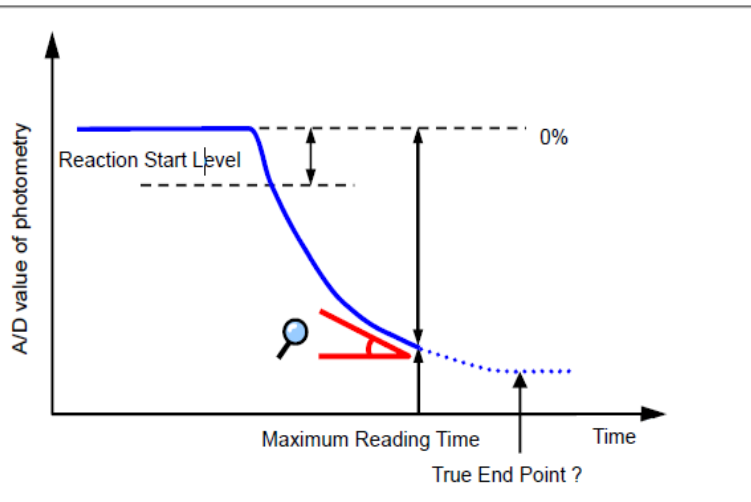
1. Analysis Time Over Error (ATO)

Joblist	Flagged numeric result
Cause	The reaction curve did not achieve an end point before the measurement time was reached. <i>Prolonged clotting time may be due to low coagulation activity, low fibrinogen concentration, anticoagulation therapy, interfering substance, etc.</i>
Kinetic Evaluation	<ul style="list-style-type: none">• Has a defined baseline• Has a clotting phase• Does not have end point• The result determined at the 50% coagulation time may be inaccurate.• This requires manual evaluation.• Look for typical progression of the curve.

Action Steps for "Analysis Time Over"

1. Set the "Measurement Time" to a longer time (within the range of 100 to 1800 seconds) or set the "Measurement Time (Sub)" in the [Detailed Settings] on the operation panel and reanalyze the sample. This step is effective to confirm whether the coagulation curve becomes a plateau in the longer time.

- Review reaction curve and Evaluation Data after reanalysis.
- **Results in a numerical value without an asterisk (*), - Report the result.**
- **Result with same ATO flag, but the result is without the asterisk (*) - Report the result.**
- **If reanalysis gives a different flag than the ATO flag, result is (*****), Review reaction curve and Evaluation Data. If the evaluation data is greater than laboratory reportable range, Report the highest point of linearity.**
- **If the result is less than the reportable range and the ATO flag remains, the 50% value is not accurate. The true result is potentially longer. DO NOT report the result. v**



Example 5

- Status = Review
- Result PTT = *114
- Flag = ATO
- Curve – no end point
- Action = run at Longer wavelength

GS-2500 ed edn : edn

***** Graph Detail Print *****

Sample No:	000016-05	6080 M	Seq:	1
Rack Tube Pos:			Re-analysis flag:	
Status:	Review		Validate:	
S. Code:	Normal		Validated on :	11/21/2019 10:24:44
Analysis Mode:		Cp	Validated by :	SYSTEM
Patient Name:			Meas. Date:	11/21/2019 10:06:37
Sample Comment:				
Sample Info. :				

APT-FSL

Result APTT * 114.1 sec

Evaluation Info.	
bH_point_time	16.2
bH	3118
End_point_time	134.9
dH	1346
Coag. %	50
dOD	0.2478

Measurement Info.	
Temperature	37.1
Channel No.	3
Management ID	1251
Dilution Ratio	1 / 1
Reagent Lot	APTT FSL 556962
	CaCl2 563866
Elapsed Time	APTT FSL 45
	CaCl2 64

Detail
0004.0000.0000 Analysis Time Over

Evaluation Data				
1%	91.3	21%	104.6	
2%	93.7	22%	105.0	
3%	95.0	23%	105.5	
4%	95.9	24%	105.8	
5%	96.9	25%	106.1	
6%	97.6	26%	106.5	
7%	98.2	27%	106.9	
8%	98.8	28%	107.2	
9%	99.4	29%	107.6	
10%	99.9	30%	107.9	
11%	100.4	31%	108.2	
12%	100.9	32%	108.6	
13%	101.3	33%	108.9	
14%	101.8	34%	109.2	
15%	102.2	35%	109.6	
16%	102.7	36%	109.9	
17%	103.1	37%	110.2	
18%	103.5	38%	110.5	
19%	103.9	39%	110.7	
20%	104.3	40%	111.1	
			41%	111.4
			42%	111.7
			43%	112.0
			44%	112.3
			45%	112.6
			46%	112.9
			47%	113.2
			48%	113.5
			49%	113.8
			50%	114.1
			51%	114.4
			52%	114.7
			53%	115.0
			54%	115.3
			55%	115.6
			56%	115.9
			57%	116.1
			58%	116.4
			59%	116.8
			60%	117.0

Reagent Table Temp.			
61%	117.4	81%	124.4
62%	117.7	82%	124.7
63%	118.0	83%	125.2
64%	118.4	84%	125.6
65%	118.6	85%	126.1
66%	119.0	86%	126.5
67%	119.3	87%	127.0
68%	119.6	88%	127.4
69%	119.9	89%	127.8
70%	120.3	90%	128.3
71%	120.7	91%	128.9
72%	121.0	92%	129.4
73%	121.4	93%	129.8
74%	121.7	94%	130.5
75%	122.1	95%	131.1
76%	122.4	96%	131.6
77%	122.8	97%	132.3
78%	123.2	98%	132.9
79%	123.5	99%	133.6
80%	123.9	100%	134.4

QC Performed Date 11/21/2019 10:08:24

21065/01-68 build 30 1/1 11/21/2019 10:42

Example 5

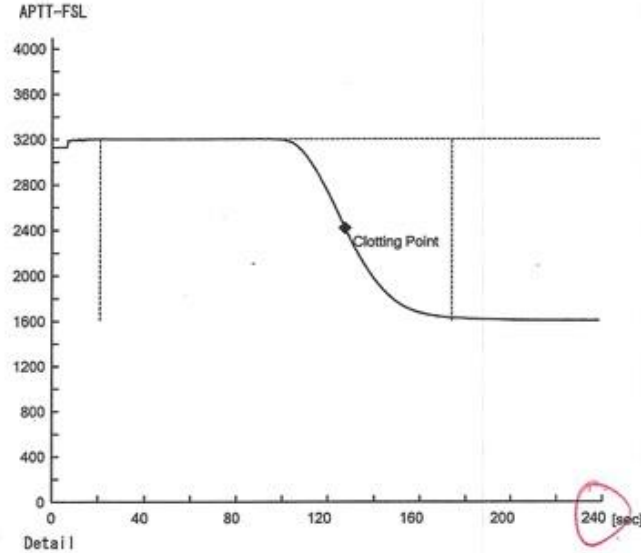
Re-analysis
No Flag
Result without star
Ok to report result.

CS-2500 ed

***** Graph Detail Print *****

edn : edn

Sample No: 6080 M Seq: 1
 Rack Tube Pos: 000016-05 Re-analysis flag: **Re-analysis**
 Status: **Review** Validate: **Performed**
 S. Code: Normal Cp Validated on: 11/21/2019 10:24:44 **And Run**
 Analysis Mode: Normal Cp Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 11/21/2019 10:06:37



Evaluation Info.
 bh_point_time 20.8
 bh 3204
 End_point_time 174.0
 dH 1572
 Coag. % 50
 dOD 0.2930

Measurement Info.
 Temperature 37.1
 Channel No. 2
 Management ID 1251
 Dilution Ratio 1 / 1
 Reagent Lot APTT FSL 556962
 CaCl2 563866
 Elapsed Time APTT FSL 45
 CaCl2 65

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 11/21/2019 10:08:24

Evaluation Data

1%	101.8
2%	104.0
3%	105.5
4%	106.5
5%	107.3
6%	108.2
7%	108.9
8%	109.6
9%	110.2
10%	110.8
11%	111.4
12%	111.9
13%	112.5
14%	113.0
15%	113.5
16%	113.9
17%	114.5
18%	115.0
19%	115.3
20%	115.9

21%	116.3
22%	116.7
23%	117.1
24%	117.6
25%	118.0
26%	118.4
27%	118.8
28%	119.3
29%	119.6
30%	120.0
31%	120.4
32%	120.8
33%	121.2
34%	121.6
35%	121.9
36%	122.3
37%	122.7
38%	123.0
39%	123.4
40%	123.8

41%	124.1
42%	124.5
43%	124.8
44%	125.2
45%	125.5
46%	125.9
47%	126.3
48%	126.7
49%	127.0
50%	127.4 ✓
51%	127.8
52%	128.1
53%	128.5
54%	128.8
55%	129.2
56%	129.6
57%	130.0
58%	130.4
59%	130.7
60%	131.2

Reagent Table Temp.	10.1
61%	131.5
62%	132.0
63%	132.4
64%	132.8
65%	133.2
66%	133.7
67%	134.1
68%	134.5
69%	135.0
70%	135.5
71%	136.0
72%	136.4
73%	136.9
74%	137.5
75%	138.0
76%	138.6
77%	139.1
78%	139.7
79%	140.2
80%	140.8
81%	141.5
82%	142.1
83%	142.8
84%	143.5
85%	144.2
86%	144.9
87%	145.7
88%	146.7
89%	147.6
90%	148.6
91%	149.6
92%	150.8
93%	152.0
94%	153.4
95%	155.1
96%	157.1
97%	159.4
98%	162.5
99%	166.7
100%	174.1

Example 6

Status = Review

Mode = Normal

Result = *PTT

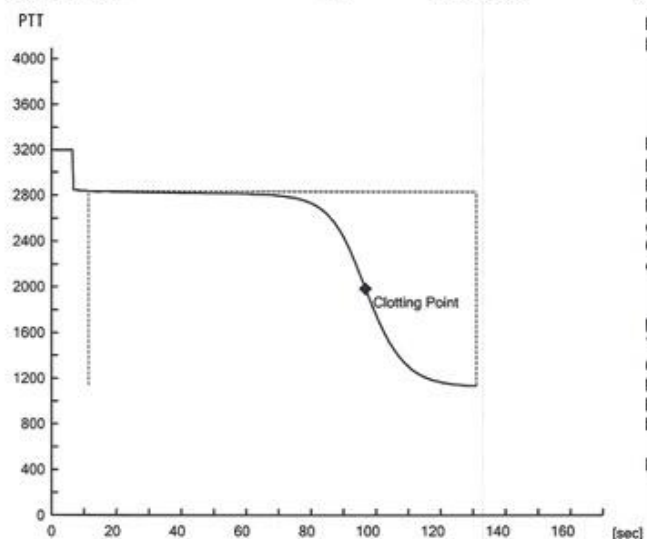
Flag = ATO and Vol

Action: Check vol, if ok, Review the Re-analysis result

As mode is normal, instrument will run On longer measurement by itself

Sample No: 10146125 B Seq: 1
 Rack Tube Pos: 000006-01 Re-analysis flag:
 Status: Review Validate:
 S. Code: Validated on: 2020/06/28 15:09:34
 Analysis Mode: Normal Validated by:
 Patient Name: ADULT ZZZYH
 Sample Comment:
 Sample Info: Vol Meas. Date: 2020/06/28 14:47:17

Performed
 SYSTEM



Result
 PTT * 96.8 sec

Evaluation Info.
 bH_point_time 11.4
 bH 2836
 End_point_time 131.0
 dH 1700
 Coag.% 50
 dOD 0.3977

Measurement Info.
 Temperature 37.0
 Channel No. 6
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 4
 CaCl2 4

Detail
 0004.0000.0000 Analysis Time Over
 1100.4000.0000 Defective Sample Volume

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level 56.0
 Calibration Curve ID
 QC Performed Date 2020/06/28
 10:52:00

Evaluation Data					
1%	55.5	21%	89.2	41%	94.7
2%	69.9	22%	89.6	42%	94.9
3%	74.5	23%	89.9	43%	95.1
4%	77.0	24%	90.2	44%	95.4
5%	78.8	25%	90.5	45%	95.6
6%	80.2	26%	90.8	46%	95.8
7%	81.4	27%	91.1	47%	96.1
8%	82.4	28%	91.4	48%	96.3
9%	83.2	29%	91.7	49%	96.5
10%	84.0	30%	92.0	50%	96.8
11%	84.6	31%	92.2	51%	97.0
12%	85.3	32%	92.5	52%	97.2
13%	85.8	33%	92.8	53%	97.4
14%	86.3	34%	93.0	54%	97.7
15%	86.8	35%	93.2	55%	97.9
16%	87.3	36%	93.5	56%	98.2
17%	87.7	37%	93.7	57%	98.4
18%	88.1	38%	93.9	58%	98.6
19%	88.5	39%	94.2	59%	98.9
20%	88.8	40%	94.5	60%	99.1

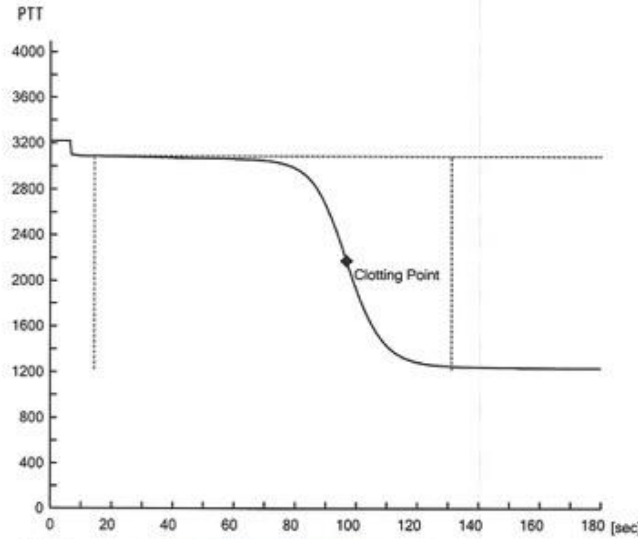
Reagent Table Temp. 10.1			
61%	99.4	81%	105.4
62%	99.6	82%	105.8
63%	99.9	83%	106.2
64%	100.2	84%	106.7
65%	100.4	85%	107.1
66%	100.7	86%	107.6
67%	100.9	87%	108.2
68%	101.2	88%	108.7
69%	101.5	89%	109.3
70%	101.8	90%	110.0
71%	102.1	91%	110.7
72%	102.4	92%	111.4
73%	102.7	93%	112.3
74%	103.0	94%	113.3
75%	103.3	95%	114.4
76%	103.6	96%	115.8
77%	103.9	97%	117.6
78%	104.3	98%	119.8
79%	104.7	99%	123.4
80%	105.0	100%	131.0

Example 6

After Re-analysis
Result without *
-ok to report

***** Graph Detail Print *****

Sample No: 10146125 B Seq: F
 Rack Tube Pos: 000008-01 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Validate on: 2020/06/28 15:09:34
 Analysis Mode: Normal Validated by: SYSTEM
 Patient Name: ADULT ZZZYH
 Sample Comment:
 Sample Info.: Vol Meas. Date: 2020/06/28 14:47:17



Result PTT 96.8 sec
 Evaluation Info.
 bH_point_time 14.4
 bH 3090
 End_point_time 131.2
 dH 1838
 Coag. % 50
 dOD 0.3921
 Measurement Info.
 Temperature 37.0
 Channel No. 3
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 4
 CaCl2 4

Detail
 1100.4000.0000 Defective Sample Volume

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level 56.0
 Calibration Curve ID
 QC Performed Date 2020/06/28 10:52:00

Evaluation Data

1%	52.2	21%	89.3	41%	94.8
2%	70.0	22%	89.7	42%	95.0
3%	74.4	23%	90.0	43%	95.2
4%	77.1	24%	90.3	44%	95.4
5%	78.9	25%	90.6	45%	95.7
6%	80.4	26%	90.9	46%	95.9
7%	81.6	27%	91.2	47%	96.1
8%	82.6	28%	91.4	48%	96.3
9%	83.4	29%	91.7	49%	96.5
10%	84.2	30%	92.0	50%	96.8
11%	84.8	31%	92.2	51%	97.1
12%	85.4	32%	92.5	52%	97.2
13%	86.0	33%	92.8	53%	97.5
14%	86.5	34%	93.1	54%	97.7
15%	86.9	35%	93.3	55%	97.9
16%	87.4	36%	93.6	56%	98.2
17%	87.8	37%	93.8	57%	98.4
18%	88.2	38%	94.0	58%	98.6
19%	88.6	39%	94.2	59%	98.8
20%	89.0	40%	94.5	60%	99.1

Reagent Table Temp.	10.1		
61%	99.4	81%	105.2
62%	99.6	82%	105.6
63%	99.8	83%	106.0
64%	100.1	84%	106.5
65%	100.3	85%	106.9
66%	100.6	86%	107.4
67%	100.8	87%	107.9
68%	101.1	88%	108.5
69%	101.3	89%	109.0
70%	101.6	90%	109.7
71%	101.9	91%	110.4
72%	102.2	92%	111.1
73%	102.5	93%	112.0
74%	102.8	94%	113.0
75%	103.1	95%	114.2
76%	103.4	96%	115.5
77%	103.8	97%	117.3
78%	104.1	98%	119.6
79%	104.5	99%	123.2
80%	104.8	100%	131.3

Example 7

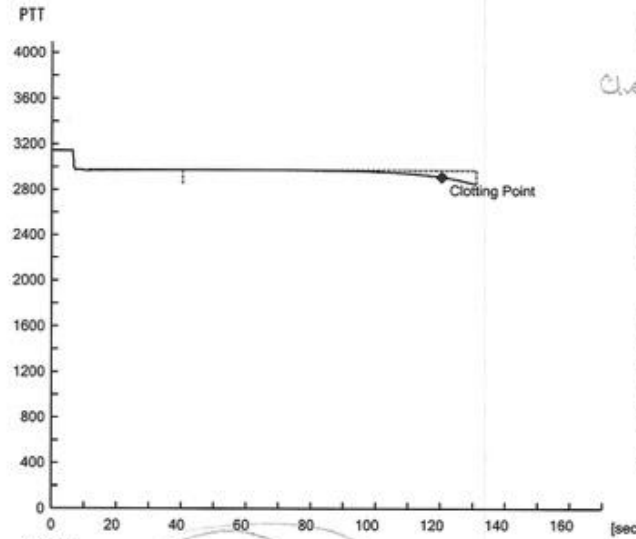
Status = Review
 Mode = normal
 Result PTT = *120.4
 Flag = ATO and vol
 Curve – no end point
 Action = Review at Longer wavelength

GS-5100 25631-1

admin: administrator

54948927 ***** Graph Detail Print *****

Sample No: (10146180) B Seq: 1
 Rack Tube Pos: 000008-01 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Review Validated on: 2020/06/29 12:29:36
 Analysis Mode: Normal Validated by: SYSTEM
 Patient Name: HIGH ZZZYH
 Sample Comment:
 Sample Info.: Vol Meas. Date: 2020/06/29 11:59:31



Result PTT * 120.4 sec
 Check vol, To Repeat

Evaluation Info.
 bh_point_time 40.4
 bh 2980
 End_point_time 131.0
 dh 122
 Coag. % 50
 d00 0.0189

Measurement Info.
 Temperature 37.0
 Channel No. 2
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 1
 CaCl2 0

Detail
 0004.0000.0000 Analysis Time Over
 1100.4000.0000 Defective Sample Volume

Hem Detection Level 0
 Iot Detection Level
 Lip Detection Level 0
 Vol Detection Level 50.8
 Calibration Curve ID
 QC Performed Date 2020/06/29
 11:59:00

Evaluation Data

1%	75.1	21%	108.2	41%	117.6
2%	79.1	22%	108.9	42%	117.9
3%	83.9	23%	109.7	43%	118.2
4%	86.4	24%	109.9	44%	118.4
5%	90.5	25%	110.5	45%	118.6
6%	92.5	26%	111.0	46%	119.4
7%	93.5	27%	111.3	47%	119.6
8%	95.1	28%	112.3	48%	119.7
9%	95.9	29%	112.8	49%	119.8
10%	98.5	30%	113.0	50%	120.4
11%	99.7	31%	113.6	51%	120.5
12%	100.5	32%	114.1	52%	120.7
13%	101.3	33%	114.4	53%	121.0
14%	103.0	34%	114.7	54%	121.3
15%	104.0	35%	115.0	55%	121.6
16%	104.6	36%	115.6	56%	121.9
17%	105.0	37%	116.2	57%	122.1
18%	106.2	38%	116.4	58%	122.2
19%	106.8	39%	116.5	59%	122.4
20%	107.6	40%	116.9	60%	123.0

Reagent Table Temp. 10.0

61%	123.2	81%	127.1
62%	123.3	82%	127.5
63%	123.4	83%	127.5
64%	123.8	84%	127.7
65%	124.1	85%	127.8
66%	124.3	86%	128.1
67%	124.4	87%	128.4
68%	124.6	88%	128.5
69%	125.0	89%	128.6
70%	125.1	90%	128.7
71%	125.3	91%	129.0
72%	125.4	92%	129.2
73%	125.8	93%	129.4
74%	125.9	94%	129.5
75%	126.1	95%	129.7
76%	126.3	96%	130.0
77%	126.4	97%	130.1
78%	126.7	98%	130.1
79%	126.8	99%	130.3
80%	127.0	100%	130.6

Example 7

After Re-analysis

Result ****

Flag: Changed to ERE-Slow reaction and Upper report limit

Evaluation data value = 177.9

Report PTT>139

CS-5100 25631-1

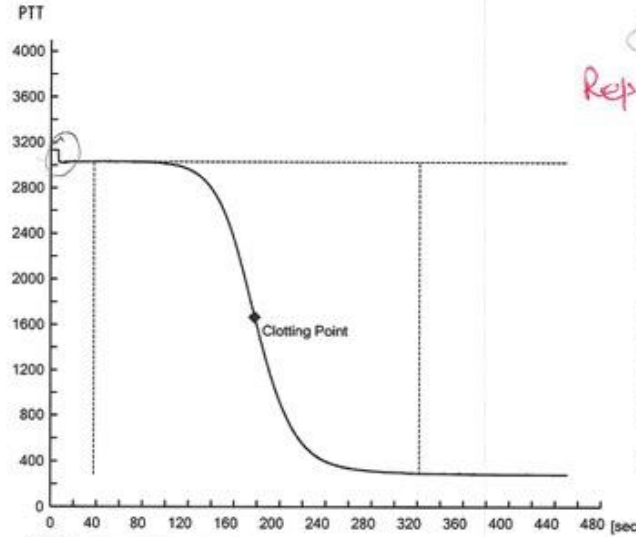
54948927

admin: administrator

***** Graph Detail Print *****

Sample No: 10146180
 Rack Tube Pos: 000008-01
 Status: Review
 S. Code:
 Analysis Mode: Normal
 Patient Name: HIGH ZZZYH
 Sample Comment:
 Sample Info.: Vol Meas. Date: 2020/06/29 11:59:31

Seq: F
 Re-analysis flag:
 Validate: Performed
 Validated on: 2020/06/29 12:29:36
 Validated by: SYSTEM



Result PTT
 Report >139 sec

Evaluation Info.
 bh_point_time 37.7
 bh 3031
 End_point_time 321.6
 dh 2735
 Coag. % 50
 dOD 1.0090

Measurement Info.
 Temperature 37.0
 Channel No. 3
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 1
 CaCl2 0

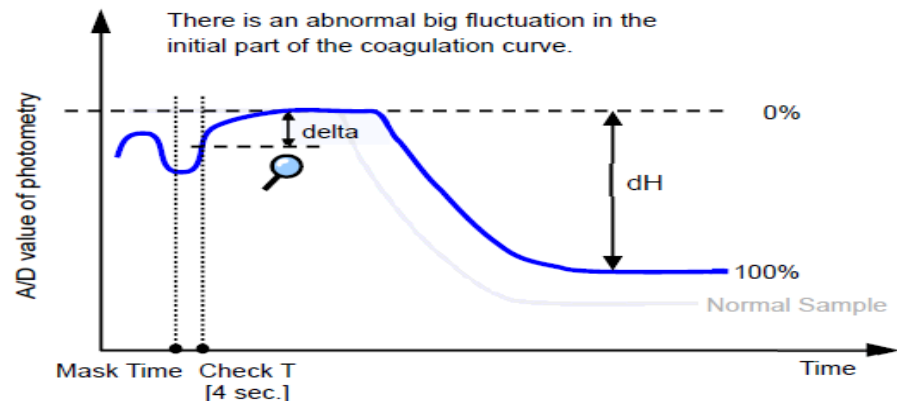
Detail
 0008.0128.0001 Early Reaction Error: Slow Reaction
 1100.4000.0000 Defective Sample Volume
 0000.6000.0100 Upper Report Limit Over

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level 50.8
 Calibration Curve ID
 QC Performed Date 2020/06/29 11:59:00

Evaluation Data

1%	108.2	21%	156.4	41%	171.7	61%	185.7	81%	203.9
2%	117.7	22%	157.4	42%	172.5	62%	186.4	82%	205.2
3%	123.7	23%	158.3	43%	173.1	63%	187.2	83%	206.4
4%	127.8	24%	159.1	44%	173.8	64%	188.0	84%	207.8
5%	131.2	25%	160.0	45%	174.5	65%	188.7	85%	209.2
6%	134.3	26%	160.8	46%	175.2	66%	189.6	86%	210.8
7%	136.7	27%	161.7	47%	175.9	67%	190.4	87%	212.5
8%	138.9	28%	162.5	48%	176.5	68%	191.1	88%	214.2
9%	140.9	29%	163.2	49%	177.3	69%	192.0	89%	216.1
10%	142.6	30%	164.0	50%	177.9	70%	192.8	90%	218.3
11%	144.3	31%	164.7	51%	178.6	71%	193.7	91%	220.5
12%	145.9	32%	165.4	52%	179.3	72%	194.6	92%	223.1
13%	147.3	33%	166.2	53%	180.0	73%	195.5	93%	226.0
14%	148.6	34%	166.8	54%	180.7	74%	196.4	94%	229.4
15%	149.9	35%	167.6	55%	181.3	75%	197.4	95%	233.6
16%	151.1	36%	168.3	56%	182.1	76%	198.4	96%	238.5
17%	152.2	37%	169.0	57%	182.7	77%	199.4	97%	245.0
18%	153.4	38%	169.7	58%	183.5	78%	200.5	98%	255.0
19%	154.4	39%	170.4	59%	184.2	79%	201.5	99%	271.1
20%	155.4	40%	171.1	60%	185.0	80%	202.7	100%	321.7

Coagulation Curve error



Action Steps for "Coagulation Curve Error"

1. After Re-analysis,
 - Results Without an asterisk (*) --- REPORT Result
 - Same flag and asterisk--**DO NOT Report the result.**

Joblist	Flagged numeric result
Cause	Occurs when there is unexpected curve fluctuation. Common cause is an air bubble in the reaction cuvette.

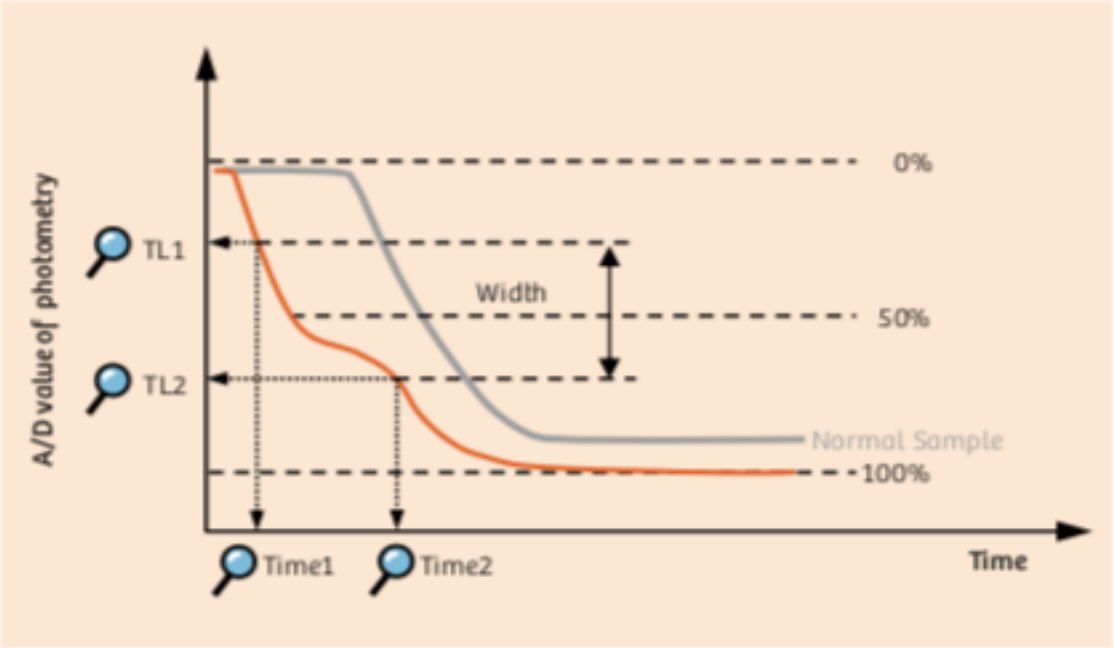
This check can detect such an abnormal fluctuation. When this situation occurs, no numerical results will be given; instead *****.*** will print along with the "Coag. Curve Error" message.

4. Early Reaction Error (ERE)

This message occurs when abnormally short **PTT** patient results may be caused by an early reaction. Patient results with an early reaction can be identified in the Evaluation Data and additional information (an Early Reaction Error code) will be shown. When this situation occurs, no numerical results will be given; instead *****.*** will print along with the "Early Reaction Error" message.

If the reaction time (Time2 - Time1) within the range of Width% is longer than the Slow Reaction Time Limit, the result will be flagged with an "Early Reaction Error" error.

All ERE will have non numerical result. (*.*) except Start Angle 2**



Example 1 at longer measurement

Status = Review

Mode = Micro

Result PTT = *33.4

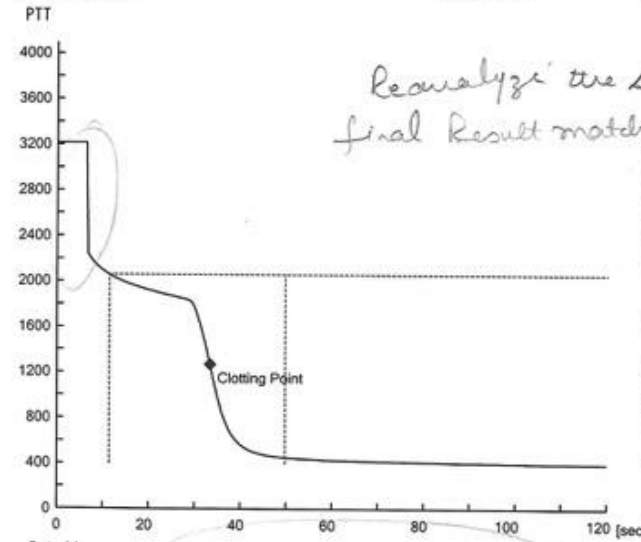
Flag = ERE; Start Angle 2

Action = Report the result

(Only ERE flag where the ** result can be reported is if it **matches the 50% point**)

***** Graph Detail Print *****

Sample No: 10146127 M Seq: F
 Rack Tube Pos: 000001-04 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Validated on: 2020/06/28 15:23:54
 Analysis Mode: Micro Validated by: admin
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/20 17:16:29



*Reanalyze the sample
 final result matches with the 50% → Report it*

Result PTT * 33.4 sec ✓
 Evaluation Info.
 bh_point_time 11.4
 bh 2057
 End_point_time 49.8
 dh 1609
 Coag. % 50
 dOD 0.6620
 Measurement Info.
 Temperature 37.1
 Channel No. 6
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 0
 CaCl2 0

Detail 0008.0128.0004 Early Reaction Error : Start Angle 2

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/20
 13:07:35

Evaluation Data				Reagent Table Temp.			
1%	12.0	21%	30.4	41%	32.6	61%	34.4
2%	12.8	22%	30.5	42%	32.7	62%	34.5
3%	13.7	23%	30.7	43%	32.8	63%	34.5
4%	14.6	24%	30.8	44%	32.8	64%	34.6
5%	15.7	25%	30.9	45%	33.0	65%	34.7
6%	16.8	26%	31.0	46%	33.0	66%	34.8
7%	18.0	27%	31.1	47%	33.1	67%	34.9
8%	19.2	28%	31.3	48%	33.2	68%	35.0
9%	20.7	29%	31.3	49%	33.3	69%	35.1
10%	22.2	30%	31.5	50%	33.4	70%	35.3
11%	23.9	31%	31.6	51%	33.5	71%	35.3
12%	25.6	32%	31.6	52%	33.6	72%	35.5
13%	27.4	33%	31.8	53%	33.6	73%	35.6
14%	28.8	34%	31.9	54%	33.7	74%	35.7
15%	29.3	35%	32.0	55%	33.8	75%	35.8
16%	29.6	36%	32.1	56%	33.9	76%	35.9
17%	29.8	37%	32.2	57%	34.0	77%	36.1
18%	29.9	38%	32.3	58%	34.1	78%	36.2
19%	30.1	39%	32.4	59%	34.2	79%	36.4
20%	30.2	40%	32.5	60%	34.2	80%	36.5

Sample No: 000019-01
 Rack Tube Pos: Review
 Status: Review
 S. Code: Micro
 Analysis Mode: Micro
 Patient Name:
 Sample Comment:
 Sample Info.: -
 Seq: micro M
 Re-analysis flag:
 Validate:
 Validated on: 08/21/2019 08:45:55
 Validated by: SYSTEM
 Meas. Date: 08/21/2019 08:36:32

F 5

After Spin

Example 2 at longer measurement

Status = Review

Mode = Micro

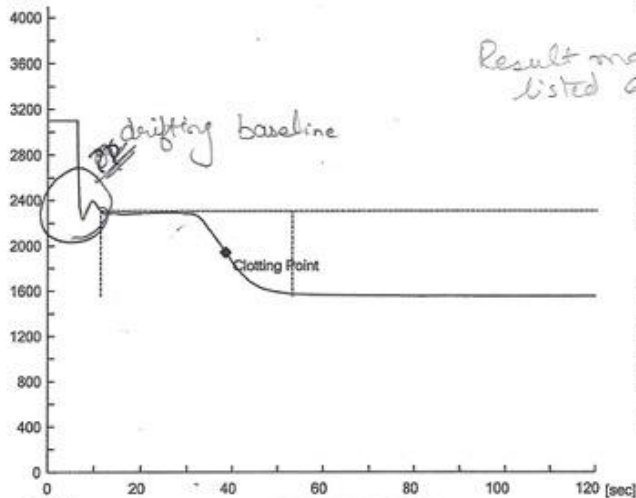
Result PTT = *38.4

Flag = ERE; Start Angle 2

Action = Report the result

(Only ERE flag where the *numeric result can be reported is if it matches the 50% point)

APTT-FSL



Result APTT FSL^{sec} * 38.4 sec

Result matches with with listed at the 50% -> Report it

Evaluation Info.

bH_point_time 11.4
 bH 2306
 End_point_time 53.2
 dH 730
 Coag. % 50
 dOD 0.1653

Measurement Info.

Temperature 37.0
 Channel No. 3
 Management ID 3251
 Dilution 1 / 1
 Reagent Lot APTT FSL 556962
 CaCl2 563846
 Elapsed Time APTT FSL 47
 CaCl2 47

Detail 0008.0128:0004 Early Reaction Error : Start Angle 2

First time to decrease or return

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID

QC Performed Date 08/21/2019 08:40:04

Reagent Table Temp. 10.0

Evaluation Data

1%	11.5	21%	34.6	41%	37.3
2%	11.8	22%	34.7	42%	37.4
3%	15.1	23%	34.9	43%	37.6
4%	31.5	24%	35.0	44%	37.6
5%	31.9	25%	35.2	45%	37.8
6%	32.2	26%	35.3	46%	37.9
7%	32.5	27%	35.5	47%	38.1
8%	32.7	28%	35.6	48%	38.2
9%	32.9	29%	35.7	49%	38.3
10%	33.0	30%	35.9	50%	38.4
11%	33.2	31%	36.0	51%	38.5
12%	33.3	32%	36.1	52%	38.7
13%	33.5	33%	36.2	53%	38.7
14%	33.7	34%	36.4	54%	38.9
15%	33.8	35%	36.5	55%	39.0
16%	33.9	36%	36.7	56%	39.1
17%	34.1	37%	36.8	57%	39.3
18%	34.2	38%	36.9	58%	39.4
19%	34.4	39%	37.0	59%	39.5
20%	34.5	40%	37.2	60%	39.7

61%	39.8	81%	42.9
62%	39.9	82%	43.0
63%	40.0	83%	43.3
64%	40.2	84%	43.6
65%	40.3	85%	43.7
66%	40.4	86%	43.9
67%	40.6	87%	44.3
68%	40.7	88%	44.5
69%	40.9	89%	44.8
70%	41.0	90%	45.1
71%	41.2	91%	45.5
72%	41.3	92%	45.8
73%	41.5	93%	46.2
74%	41.6	94%	46.8
75%	41.8	95%	47.3
76%	41.9	96%	48.0
77%	42.1	97%	48.8
78%	42.3	98%	49.8
79%	42.4	99%	51.1
80%	42.7	100%	53.3

ERE: Early %

Check sample for clot, lipemia and hemolysis.

If not clotted, microfuge if lipemic or hemolyzed,

- **After reanalysis, numerical result without an asterisk (*), --Report the result.**
- **If result with the 50 % value is <20 seconds, the sample is clotting too quickly possibly due to pre-analytical variables. Recollect sample. DO NOT REPORT.**
- **If reanalysis of the sample results has a different flag (Lower report Limit Over) along with ERE – Early %, and the 50% value is <20 seconds PTT, Report <20 seconds.**

Example 8

Status = Review

Mode = Normal

Result PTT = ****

Flag = ERE; Early%

Lipemia

Drifting baseline

Action: Check for clot

Microfuge and re-analyze

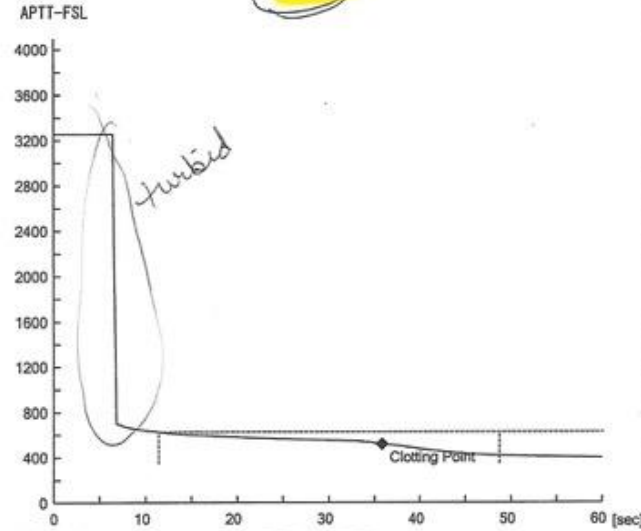
CS-5100 sad/haq

***** Graph Detail Print *****

Elise: Elise

Sample No: MR. BURGER M Seq: 1
 Rack Tube Pos: 000003-02 Re-analysis flag:
 Status: Review Validate:
 S. Code: Validated on: 08/22/2019 09:18:25
 Analysis Mode: Normal Cp Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: Lip Meas. Date: 08/22/2019 09:02:44

③
First Run



Result
 APTT FSL~sec ****. * sec

Evaluation Info.
 bh_point_time 11.4
 bh 626
 End_point_time 48.7
 dH 210
 Coag. % 50
 dOD 0.1775

Measurement Info.
 Temperature 37.0
 Channel No. 8
 Management ID 3251
 Dilution 1 / 1
 Reagent Lot APTT FSL 556962
 CaCl2 563846
 Elapsed Time APTT FSL 72
 CaCl2 72

Detail
 0008.0128.0015 Early Reaction Error : Early %

Centrifuge & repeat

Hem Detection Level 0
 Ict Detection Level 0
 Lip Detection Level 3
 Vol Detection Level 55.9
 Calibration Curve ID
 QC Performed Date 08/22/2019 08:57:33

Evaluation Data				Reagent Table Temp.					
1%	11.5	21%	19.4	41%	33.7	61%	38.1	81%	42.1
2%	11.7	22%	20.1	42%	33.9	62%	38.2	82%	42.3
3%	12.0	23%	20.8	43%	34.2	63%	38.4	83%	42.5
4%	12.2	24%	21.1	44%	34.5	64%	38.6	84%	42.7
5%	12.5	25%	21.8	45%	34.7	65%	38.9	85%	42.9
6%	12.8	26%	22.5	46%	34.9	66%	39.1	86%	43.3
7%	13.0	27%	23.2	47%	35.1	67%	39.3	87%	43.5
8%	13.3	28%	23.8	48%	35.3	68%	39.4	88%	43.7
9%	13.5	29%	24.2	49%	35.5	69%	39.6	89%	44.0
10%	14.0	30%	25.6	50%	35.8	70%	39.8	90%	44.4
11%	14.3	31%	26.4	51%	36.0	71%	40.1	91%	44.7
12%	14.7	32%	27.1	52%	36.2	72%	40.2	92%	45.0
13%	15.1	33%	28.0	53%	36.4	73%	40.4	93%	45.3
14%	15.7	34%	28.8	54%	36.6	74%	40.6	94%	45.6
15%	16.2	35%	29.6	55%	36.8	75%	40.8	95%	46.1
16%	16.5	36%	30.5	56%	37.0	76%	41.0	96%	46.4
17%	17.1	37%	31.4	57%	37.2	77%	41.2	97%	47.0
18%	17.5	38%	32.1	58%	37.4	78%	41.3	98%	47.4
19%	18.0	39%	32.8	59%	37.6	79%	41.6	99%	48.1
20%	18.8	40%	33.3	60%	37.9	80%	41.8	100%	48.7

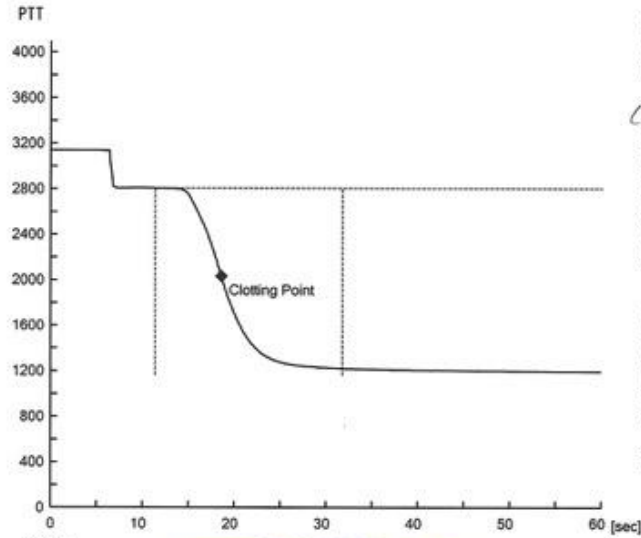
Example 9

After re-analysis,
 Result=***
 Flag= ERE ; early% with Lower
 report limit error
 Action: check eval data,
 PTT 50% value =18.6
 Report = <20 sec

***** Graph Detail Print *****

Sample No: 54969492 B Seq: F
 Rack Tube Pos: 000009-02 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Normal Validated on: 2020/06/30 15:11:36
 Analysis Mode: Normal Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: Meas. Date: 2020/06/30 15:04:10

① Check for clot
 ② After reanalysis



Result PTT ***** sec
 ③ Report <20 sec
 if lower report limit flag
 Evaluation Info. appear along with
 bh_point_time 11.4 ERE-early %
 bh 2808
 End_point_time 31.8
 dh 1585
 Coag.% 50
 dOD 0.3610

Measurement Info.
 Temperature 37.0
 Channel No. 3
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 7
 CaCl2 27

Detail
 0008.0128.0016 Early Reaction Error : Early %
 0000.6000.0200 Lower Report Limit Over

Hem Detection Level 0
 Tot Detection Level
 Lip Detection Level 0
 Vol Detection Level 49.3
 Calibration Curve ID
 QC Performed Date 2020/06/30
 13:08:54

Evaluation Data			
1%	14.3	21%	16.6
2%	14.7	22%	16.8
3%	14.8	23%	16.8
4%	15.0	24%	16.9
5%	15.1	25%	17.0
6%	15.2	26%	17.1
7%	15.4	27%	17.1
8%	15.4	28%	17.2
9%	15.6	29%	17.3
10%	15.7	30%	17.4
11%	15.7	31%	17.4
12%	15.8	32%	17.5
13%	16.0	33%	17.5
14%	16.0	34%	17.6
15%	16.1	35%	17.7
16%	16.2	36%	17.7
17%	16.3	37%	17.8
18%	16.4	38%	17.9
19%	16.5	39%	18.0
20%	16.5	40%	18.0
		41%	18.0
		42%	18.1
		43%	18.2
		44%	18.2
		45%	18.2
		46%	18.3
		47%	18.4
		48%	18.5
		49%	18.5
		50%	18.6
		51%	18.6
		52%	18.7
		53%	18.8
		54%	18.8
		55%	18.9
		56%	19.0
		57%	19.0
		58%	19.1
		59%	19.1
		60%	19.2

Reagent Table Temp. 10.1			
61%	19.3	81%	21.1
62%	19.4	82%	21.1
63%	19.4	83%	21.3
64%	19.5	84%	21.4
65%	19.6	85%	21.6
66%	19.7	86%	21.7
67%	19.7	87%	21.9
68%	19.8	88%	22.1
69%	19.9	89%	22.2
70%	19.9	90%	22.5
71%	20.0	91%	22.7
72%	20.2	92%	23.0
73%	20.2	93%	23.3
74%	20.3	94%	23.6
75%	20.4	95%	24.0
76%	20.5	96%	24.5
77%	20.6	97%	25.3
78%	20.7	98%	26.3
79%	20.8	99%	28.2
80%	20.9	100%	31.9

***** Graph Detail Print *****

Sample No: 10146068 M Seq: F
 Rack Tube Pos: 000005-04 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Micro Validated on: 2020/06/26 16:12:26
 Analysis Mode: Micro Validated by: admin
 Patient Name:
 Sample Comment:
 Sample Info: - Meas. Date: 2020/06/26 15:25:14

Example 10

This is after re-analysis

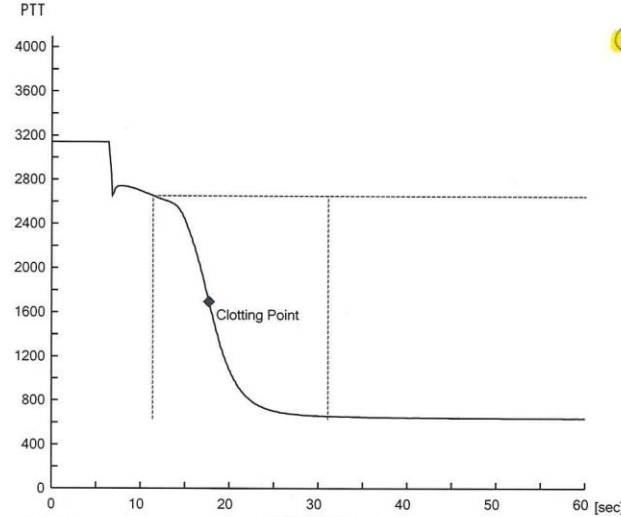
Already check the clot

Result = *******(PTT)

Flag = ERE-early% with lower report limit

Evaluation data = PTT 17.7

Report = PTT<20 sec



Result
PTT ***** sec
Report < 20 sec

Evaluation Info.
 bh_point_time 11.4
 bh 2655
 End_point_time 31.1
 dH 1998
 Coag.% 50
 dOD 0.6065

Measurement Info.
 Temperature 37.0
 Channel No. 3
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 8
 CaCl2 8

Detail
 0008.0128.0016 Early Reaction Error : Early %
 0000.6000.0200 Lower Report Limit Over

⇒ Check for clot, if clotted → Cancel
⇒ Reanalyze
⇒ If ERE-early% along with 'lower limit flag' → Report < 20 sec

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/26
 14:45:02

Evaluation Data				Reagent Table Temp.			
1%	11.9	21%	15.8	41%	17.2	61%	18.4
2%	12.6	22%	15.9	42%	17.3	62%	18.5
3%	13.3	23%	16.0	43%	17.3	63%	18.5
4%	13.7	24%	16.0	44%	17.4	64%	18.6
5%	14.0	25%	16.1	45%	17.4	65%	18.7
6%	14.3	26%	16.2	46%	17.5	66%	18.8
7%	14.4	27%	16.2	47%	17.6	67%	18.8
8%	14.5	28%	16.3	48%	17.6	68%	18.9
9%	14.7	29%	16.4	49%	17.7	69%	19.0
10%	14.8	30%	16.5	50%	17.7	70%	19.1
11%	14.9	31%	16.5	51%	17.8	71%	19.1
12%	15.0	32%	16.6	52%	17.9	72%	19.2
13%	15.1	33%	16.7	53%	18.0	73%	19.4
14%	15.2	34%	16.8	54%	18.0	74%	19.4
15%	15.3	35%	16.8	55%	18.0	75%	19.5
16%	15.4	36%	16.9	56%	18.1	76%	19.6
17%	15.5	37%	16.9	57%	18.2	77%	19.7
18%	15.6	38%	17.0	58%	18.2	78%	19.8
19%	15.7	39%	17.1	59%	18.3	79%	19.9
20%	15.7	40%	17.1	60%	18.4	80%	20.0

25631/01-18 bui ld40 1/1 2020/06/26 16:12

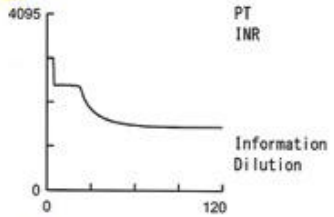
Example 11

Status = Error
Mode = Normal
Result PTT =***(but normal PTINR)
Flag = ERE; Early%
Noise
Action: re-analyze sample
If re-analysis results with the **same NOISE flag**, DO NOT report the result

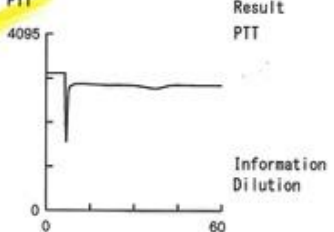
CS-5100 25618-3 admin: administrator

Sample No: 25 M Seq: F
Rack Tube Pos: 000007-05 Re-analysis flag:
Status: **Error** Validate: Performed
S. Code: Validated on: 2020/06/25 14:51:14
Analysis Mode: Normal Validated by: SYSTEM
Patient Name:
Sample Comment:
Sample Info: Hem Meas. Date: 2020/06/25 14:43:48

PT Result Detail
PT 27.7 sec
INR 2.82



PTT Result Detail
PTT 0008.0128.0016 Early Reaction Error: Early %
0008.0256.0000 Noise



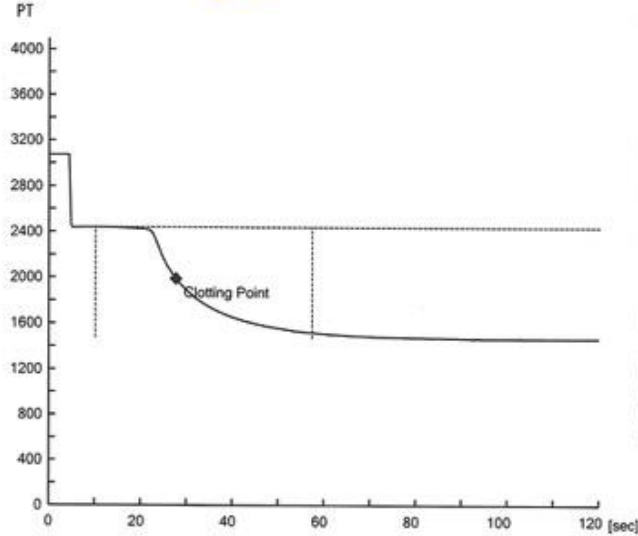
Donot report

Example 12

Ok to report

***** Graph Detail Print *****

Sample No: 25 M Seq: F
 Rack Tube Pos: 000007-05 Re-analysis flag:
 Status: Error Validate: Performed
 S. Code: Normal Validated on: 2020/06/25 14:51:14
 Analysis Mode: Normal Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: Hem Meas. Date: 2020/06/25 14:43:48



Result
 PT 27.7 sec
 INR 2.82
 Evaluation Info.
 bh_point_time 10.1
 bh 2443
 End_point_time 57.4
 dh 925
 Coag.% 50
 dOD 0.2065
 Slope 42.23
 Measurement Info.
 Temperature 37.0
 Channel No. 2
 Management ID 3023
 Dilution 1 / 1
 Reagent Lot PT Inn 549759
 Elapsed Time PT Inn 6

Hem Detection Level 3
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level 49.6
 Calibration Curve ID 5
 QC Performed Date 2020/06/25 08:53:47

Evaluation Data

1%	17.1	21%	24.0	41%	26.3
2%	20.9	22%	24.0	42%	26.4
3%	21.8	23%	24.1	43%	26.6
4%	22.1	24%	24.3	44%	26.7
5%	22.3	25%	24.4	45%	26.9
6%	22.5	26%	24.5	46%	27.1
7%	22.6	27%	24.5	47%	27.2
8%	22.8	28%	24.6	48%	27.4
9%	22.9	29%	24.7	49%	27.6
10%	23.0	30%	24.9	50%	27.7
11%	23.1	31%	25.0	51%	27.9
12%	23.2	32%	25.1	52%	28.2
13%	23.3	33%	25.2	53%	28.3
14%	23.4	34%	25.3	54%	28.5
15%	23.5	35%	25.5	55%	28.7
16%	23.5	36%	25.6	56%	29.0
17%	23.6	37%	25.7	57%	29.2
18%	23.7	38%	25.8	58%	29.4
19%	23.8	39%	26.0	59%	29.7
20%	23.9	40%	26.1	60%	29.9

Reagent Table Temp.	10.1
61%	30.2
62%	30.4
63%	30.7
64%	30.9
65%	31.2
66%	31.5
67%	31.8
68%	32.1
69%	32.4
70%	32.8
71%	33.0
72%	33.5
73%	33.8
74%	34.2
75%	34.5
76%	35.0
77%	35.4
78%	35.8
79%	36.3
80%	36.8
81%	37.3
82%	37.8
83%	38.4
84%	39.0
85%	39.6
86%	40.3
87%	40.9
88%	41.7
89%	42.5
90%	43.4
91%	44.2
92%	45.2
93%	46.2
94%	47.4
95%	48.7
96%	50.0
97%	51.5
98%	52.9
99%	54.9
100%	57.5

Example 13

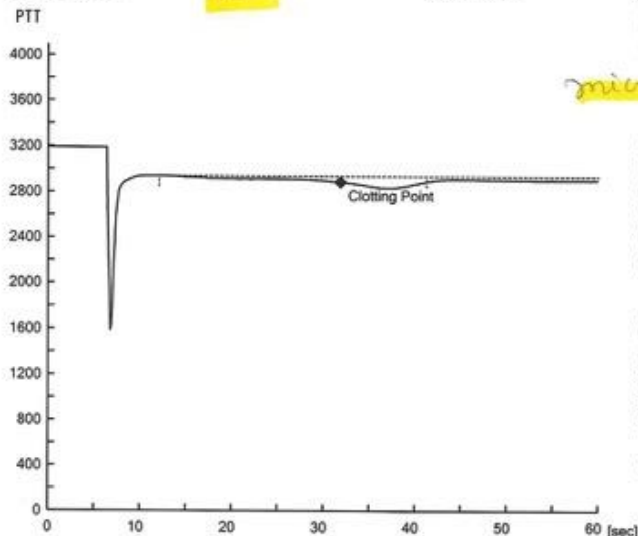
Re-analysis Same Noise flag—DO NOT Report

CS-5100 25618-3

admin: administrator

**** Graph Detail Print ****

Sample No: 25 M Seq: F
 Rack Tube Pos: 000007-05 Re-analysis flag:
 Status: Error Validate: Performed
 S. Code: Error Validated on: 2020/06/25 14:51:14
 Analysis Mode: Normal Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: Hem Meas. Date: 2020/06/25 14:43:48



Result
 PTT
 Evaluation Info.
 bh_point_time 12.1
 bh 2940
 End_point_time 41.3
 dH 102
 Coag.% 50
 dOD 0.0068

Measurement Info.
 Temperature 37.0
 Channel No. 6
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 6
 CaCl2 6

Detail
 0008.0128.0016 Early Reaction Error : Early %
 0008.0256.0000 Noise

⇒ If repeat came out with ** with same flag → Don't report ??

Hem Detection Level 3
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level 49.6
 Calibration Curve ID
 QC Performed Date 2020/06/25 09:46:13

Evaluation Data

1%	12.8	21%	18.4	41%	30.5
2%	13.3	22%	18.6	42%	30.7
3%	13.8	23%	18.8	43%	30.8
4%	14.0	24%	19.5	44%	30.9
5%	14.2	25%	26.2	45%	31.0
6%	14.3	26%	26.6	46%	31.3
7%	14.5	27%	27.4	47%	31.3
8%	14.6	28%	27.6	48%	31.5
9%	15.0	29%	27.8	49%	31.6
10%	15.2	30%	28.1	50%	31.9
11%	15.4	31%	28.4	51%	32.0
12%	15.7	32%	28.5	52%	32.2
13%	16.0	33%	29.0	53%	32.2
14%	16.3	34%	29.2	54%	32.4
15%	16.6	35%	29.3	55%	32.5
16%	17.0	36%	29.5	56%	32.6
17%	17.1	37%	29.7	57%	32.7
18%	17.2	38%	29.9	58%	32.8
19%	17.5	39%	30.1	59%	32.9
20%	17.7	40%	30.3	60%	33.0

Reagent Table Temp. 10.1

61%	33.0	81%	34.7
62%	33.2	82%	34.7
63%	33.3	83%	34.8
64%	33.3	84%	34.9
65%	33.4	85%	35.0
66%	33.5	86%	35.0
67%	33.6	87%	35.1
68%	33.6	88%	35.2
69%	33.8	89%	35.3
70%	33.9	90%	35.3
71%	33.9	91%	35.4
72%	34.0	92%	35.5
73%	34.1	93%	35.6
74%	34.2	94%	35.7
75%	34.2	95%	35.8
76%	34.4	96%	35.9
77%	34.5	97%	36.0
78%	34.5	98%	36.3
79%	34.5	99%	41.3
80%	34.6	100%	41.3

25618/01-18 build40

1/1

2020/06/28 14:50

ERE – Slow Reaction

- Joblist result shows (***)
- Check the analysis data. Respin if interference or repeat the sample on sub wavelength.
- **After reanalysis,**
 - **Results in a numerical value without an asterisk (*), -Report the result.**
 - **Same flag and result shows (***)—Do Not report the result.**
 - **Same flag along with Upper Report limit flag - check PTT with data 50% - above the linearity, Reanalyze the curve -----Report PTT Upper limit, >139 sec.**

***** Graph Detail Print *****

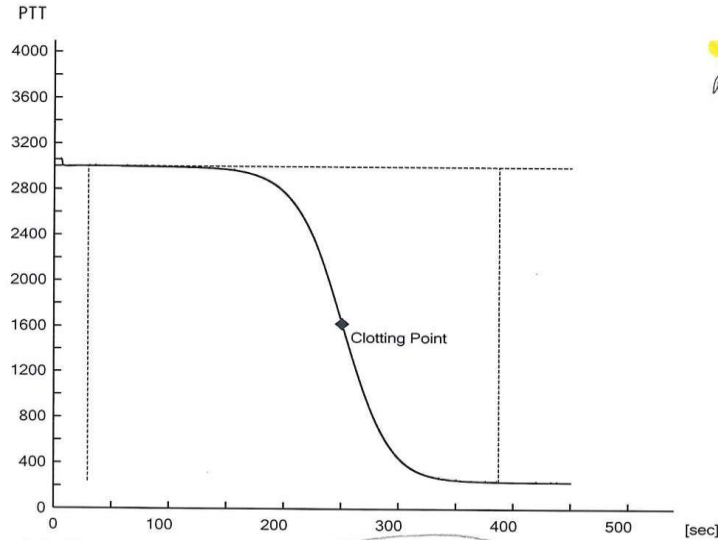
Sample No: 10146122 B Seq: F
 Rack Tube Pos: 000002-01 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Analysis Mode: Normal Validated on : 2020/06/28 14:02:35
 Patient Name: CSTHREE ZZZYH Validated by : SYSTEM
 Sample Comment: Meas. Date: 2020/06/28 13:40:18
 Sample Info.: -

After - Re-analysis

Example 14

This example is after re-analysis

Status = Review
 Mode = Normal
 Result = **** (PTT)
 Flag = ERE-Slow reaction and upper report limit
 (combination of both flag)
 Evaluation data = PTT=250.9
 Report > 139 sec



Result
 PTT ****. * sec

Report > 139 sec

Evaluation Info.
 bh_point_time 29.6
 bh 3002
 End_point_time 387.5
 dH 2762
 Coag. % 50
 dOD 1.0972

Measurement Info.
 Temperature 37.1
 Channel No. 2
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 3
 CaCl2 0

Detail
 0008.0128.0001 Early Reaction Error : Slow Reaction
 0000.6000.0100 Upper Report Limit Over

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/28
 10:41:07

Evaluation Data

1%	151.1	21%	224.0	41%	243.5	61%	260.0	81%	279.8
2%	168.5	22%	225.2	42%	244.3	62%	260.9	82%	281.1
3%	177.3	23%	226.4	43%	245.1	63%	261.7	83%	282.4
4%	184.0	24%	227.5	44%	246.0	64%	262.6	84%	283.8
5%	189.1	25%	228.7	45%	246.8	65%	263.5	85%	285.2
6%	193.2	26%	229.7	46%	247.6	66%	264.4	86%	286.9
7%	196.9	27%	230.8	47%	248.5	67%	265.3	87%	288.4
8%	199.9	28%	231.8	48%	249.3	68%	266.2	88%	290.1
9%	202.7	29%	232.8	49%	250.1	69%	267.1	89%	292.0
10%	205.2	30%	233.7	50%	250.9	70%	268.1	90%	294.0
11%	207.5	31%	234.7	51%	251.7	71%	269.0	91%	296.2
12%	209.7	32%	235.7	52%	252.5	72%	270.0	92%	298.6
13%	211.7	33%	236.5	53%	253.3	73%	271.0	93%	301.2
14%	213.5	34%	237.4	54%	254.2	74%	272.0	94%	304.3
15%	215.2	35%	238.3	55%	255.0	75%	273.0	95%	307.7
16%	216.9	36%	239.2	56%	255.8	76%	274.1	96%	312.1
17%	218.4	37%	240.1	57%	256.7	77%	275.1	97%	317.7
18%	220.0	38%	240.9	58%	257.5	78%	276.3	98%	324.8
19%	221.3	39%	241.8	59%	258.3	79%	277.4	99%	337.5
20%	222.7	40%	242.6	60%	259.2	80%	278.6	100%	387.6

Example 15

This example is after re-analysis

Status = Review
 Mode = Normal
 Result = **** (PTT)
 Flag = ERE-Slow reaction and
 upper report limit
 (combination of both flag)
 Evaluation data = PTT=250.5
 Report > 139 sec

***** Graph Detail Print *****

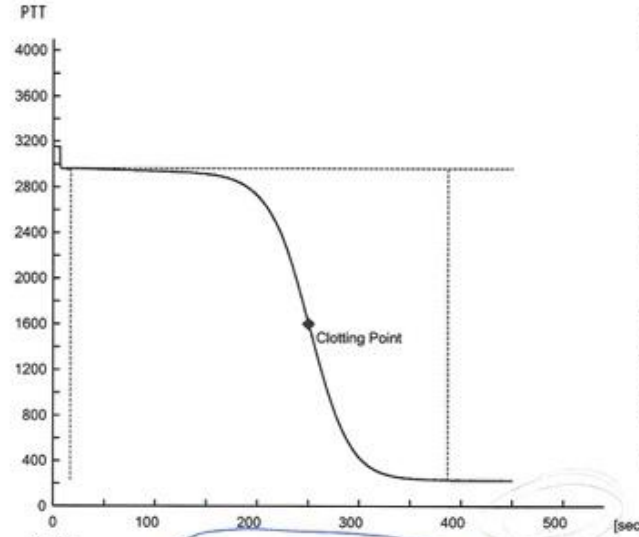
Sample No: 10146123 B Seq: **F**
 Rack Tube Pos: 000003-01 Re-analysis flag:
 Status: **Review** Validate:
 S. Code: Normal Validated on: 2020/06/28 14:03:28
 Analysis Mode: PTT ZZZYH Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/28 13:41:11

After - Re-analysis

Result
 PTT ******. * sec**
7139 sec

Evaluation Info.
 bh_point_time 17.1
 bh 2966
 End_point_time 387.2
 dh 2736
 Coag. % 50
 dOD 1.1086

Measurement Info.
 Temperature 37.0
 Channel No. 2
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 3
 CaCl2 2

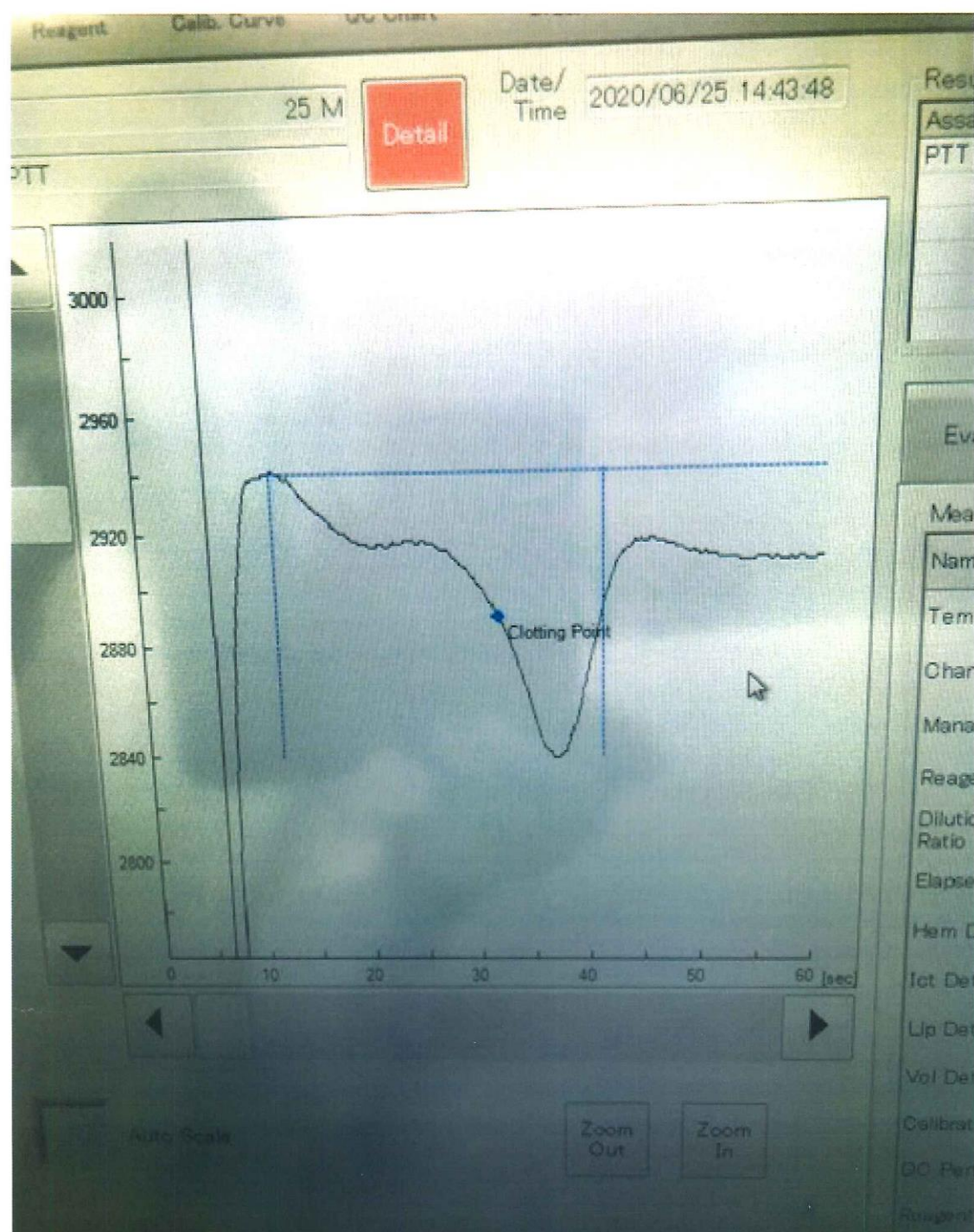


Detail
 0008.0128.0001 **Early Reaction Error : Slow Reaction**
 0000.6000.0100 **Upper Report Limit Over**

Hem Detection Level 0
 Iot Detection Level
 Lip Detection Level 0
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/28
 10:21:18

Evaluation Data			
1%	113.9	21%	223.3
2%	155.1	22%	224.6
3%	170.0	23%	225.8
4%	178.8	24%	226.9
5%	185.1	25%	228.1
6%	190.2	26%	229.2
7%	194.2	27%	230.2
8%	197.8	28%	231.3
9%	200.9	29%	232.3
10%	203.6	30%	233.2
11%	206.1	31%	234.2
12%	208.4	32%	235.1
13%	210.5	33%	236.0
14%	212.5	34%	237.0
15%	214.3	35%	237.9
16%	216.0	36%	238.8
17%	217.6	37%	239.7
18%	219.2	38%	240.5
19%	220.6	39%	241.4
20%	222.0	40%	242.2
		41%	243.1
		42%	243.9
		43%	244.8
		44%	245.6
		45%	246.5
		46%	247.3
		47%	248.1
		48%	249.0
		49%	249.7
		50%	250.5
		51%	251.3
		52%	252.2
		53%	253.0
		54%	253.9
		55%	254.6
		56%	255.5
		57%	256.3
		58%	257.1
		59%	257.9
		60%	258.8

Reagent Table Temp. 10.0			
61%	259.6	81%	279.5
62%	260.5	82%	280.7
63%	261.3	83%	282.0
64%	262.3	84%	283.5
65%	263.1	85%	284.9
66%	264.0	86%	286.3
67%	264.9	87%	288.0
68%	265.8	88%	289.7
69%	266.7	89%	291.6
70%	267.7	90%	293.6
71%	268.7	91%	295.7
72%	269.6	92%	298.1
73%	270.6	93%	300.8
74%	271.6	94%	303.7
75%	272.7	95%	307.4
76%	273.7	96%	311.8
77%	274.8	97%	317.1
78%	275.9	98%	324.7
79%	277.0	99%	337.9
80%	278.2	100%	387.3



Example 16

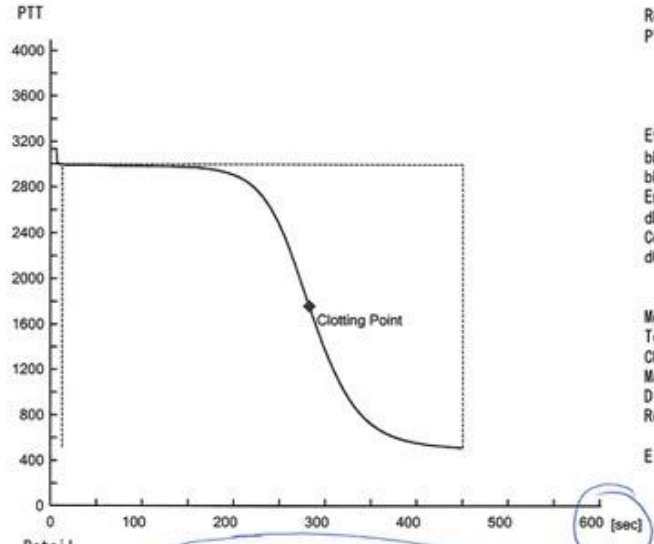
This example is after re-analysis
Ran on longer measurement

- Status = Review
- Mode = micro
- Result = **** (PTT)
- Flag = ERE-Slow reaction and upper report limit (combination of both flag)
- Evaluation data = PTT=282.8 sec
- Report > 139 sec

***** Graph Detail Print *****

Sample No: 54933580 B Seq: F
 Rack Tube Pos: 000002-02 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Review Validated on: 2020/06/29 12:41:27
 Analysis Mode: Micro Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/29 12:26:58

Repeated Result



Result PTT ***** sec

> 139 sec

Evaluation Info.
 bh_point_time 12.8
 bh 2998
 End_point_time 450.7
 dh 2487
 Coag. % 50
 dOD 0.7693

Measurement Info.
 Temperature 37.1
 Channel No. 3
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 1
 CaCl2 0

Detail
 0008.0128.0001 Early Reaction Error : Slow Reaction
 0000.6000.0100 Upper Report Limit Over

Hem Detection Level
 Tot Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/29 11:59:00

Evaluation Data			
1%	155.7	21%	249.9
2%	181.6	22%	251.3
3%	194.4	23%	252.7
4%	202.7	24%	254.0
5%	208.8	25%	255.3
6%	214.0	26%	256.6
7%	218.4	27%	257.9
8%	222.0	28%	259.0
9%	225.2	29%	260.2
10%	228.3	30%	261.4
11%	230.8	31%	262.5
12%	233.3	32%	263.6
13%	235.6	33%	264.7
14%	237.8	34%	265.9
15%	239.8	35%	267.0
16%	241.7	36%	268.1
17%	243.4	37%	269.1
18%	245.1	38%	270.2
19%	246.7	39%	271.2
20%	248.3	40%	272.3
		41%	273.3
		42%	274.4
		43%	275.4
		44%	276.5
		45%	277.5
		46%	278.7
		47%	279.6
		48%	280.7
		49%	281.8
		50%	282.8
		51%	283.8
		52%	284.9
		53%	286.0
		54%	287.0
		55%	288.1
		56%	289.2
		57%	290.3
		58%	291.5
		59%	292.6
		60%	293.7

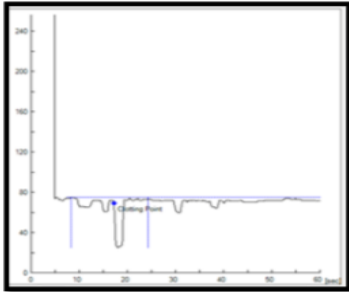
Reagent Table Temp. 10.0			
61%	294.9	81%	322.8
62%	295.9	82%	324.8
63%	297.1	83%	326.8
64%	298.3	84%	328.9
65%	299.4	85%	331.0
66%	300.8	86%	333.3
67%	302.0	87%	335.9
68%	303.2	88%	338.6
69%	304.5	89%	341.6
70%	305.8	90%	344.7
71%	307.1	91%	348.2
72%	308.5	92%	352.1
73%	310.0	93%	356.4
74%	311.4	94%	361.4
75%	312.9	95%	367.3
76%	314.4	96%	374.4
77%	315.9	97%	383.4
78%	317.6	98%	395.5
79%	319.3	99%	413.8
80%	321.0	100%	450.7

ERE angle 1 and drift flag:

- Joblist result shows (***)
- Check the analysis data. Respin if interference or repeat the sample on sub wavelength
- **If reanalysis** of the sample results in a numerical value **without an asterisk (*)**, - Report the result.
- If reanalysis of the sample result with same flag—**Do Not report the result.**

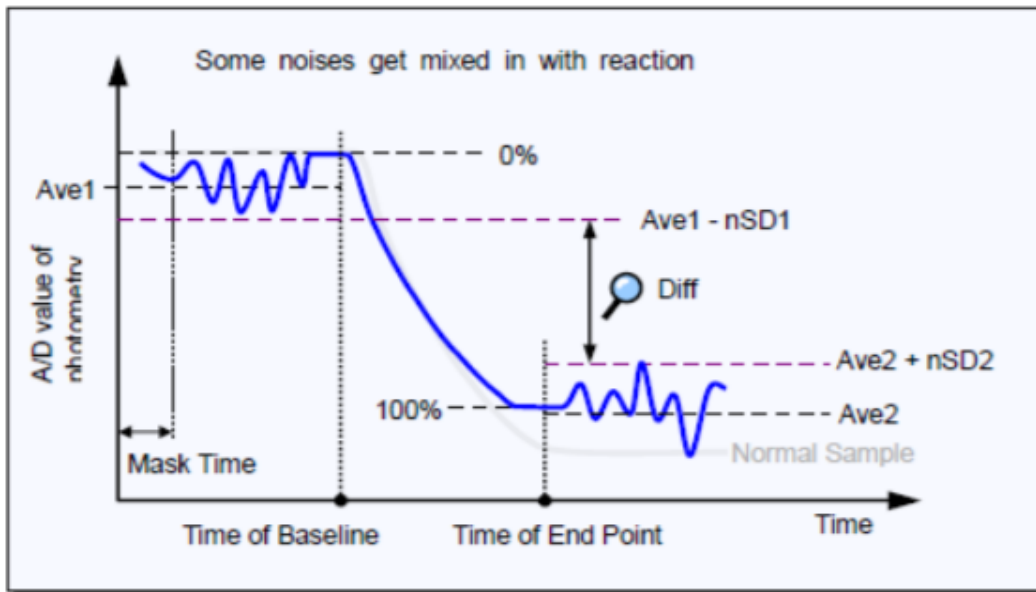
Noise Check Error

Joblist	Masked ****.* result
Cause	This occurs typically when the reaction may have some unusual artifacts or "noise". Related to hardware failure (i.e. lamp).
Kinetic Evaluation	Unusual waviness is observed in the beginning and/or end of the reaction



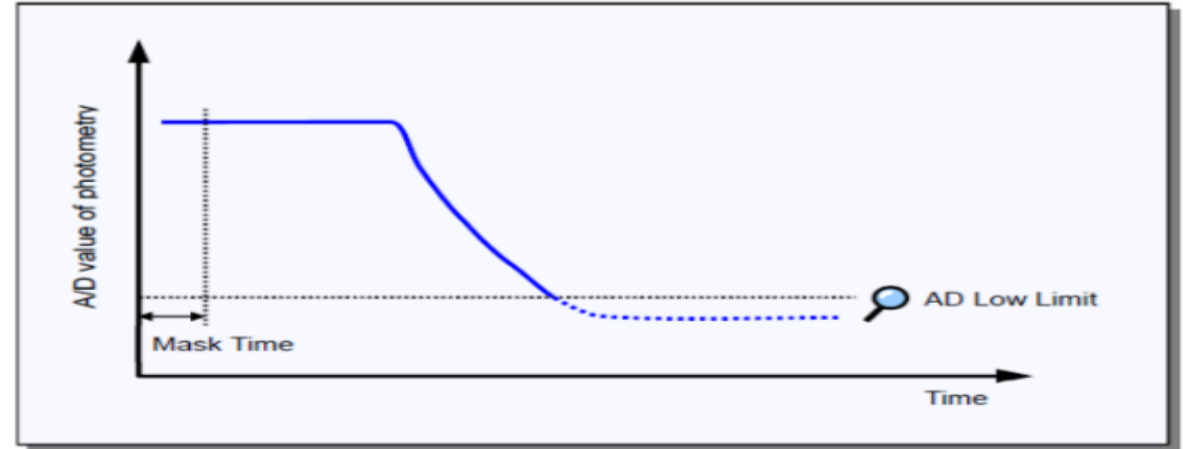
Action Steps

- When this condition is detected – **DO NOT** Report.
- **Recalibrate the lamp or replace it with a new lamp. perform calibration or QC analysis**, then check the analysis data.
- If changing the lamp, rerun on the other instrument
- If recalibrating the lamp, **Reanalyze the sample** –
 - Results without an asterisk (*) – Report
 - If same flag – **Do Not Report and rerun on the other instrument**



Turbidity Level Over Error

Joblist	Masked ****.* result
Cause	This occurs typically when a sample is turbid or lipemic.
Kinetic Evaluation	<ul style="list-style-type: none">Reaction is occurring beyond the optical ability of the system



Action Steps for “Turbidity Level Over Error”

1. Reanalyze the sample after microfuge or ultracentrifuge.
 - Numeric result without an asterisk (*), - Report the result
 - Same flag again – **DO NOT** Report

DO NOT REPORT RESULTS WITHOUT NUMERICAL VALUES

No Coagulation Error

Joblist Masked ****.* result

Cause No coagulation or a weak coagulation was detected.

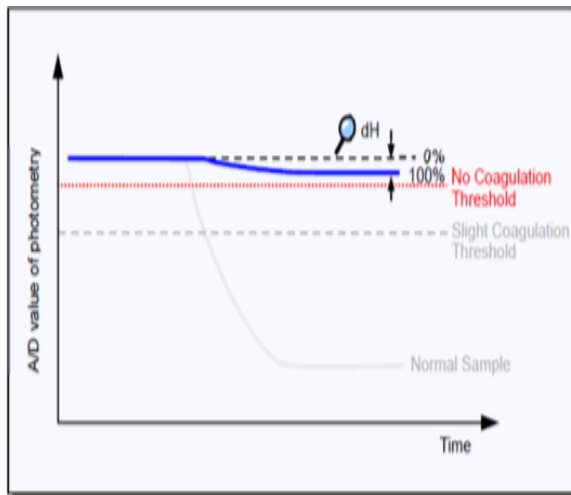
Due to possible low fibrinogen concentration, presence of anticoagulant, or a reagent issue.

Kinetic Evaluation • Reaction curve has no change or possible a very weak reaction if the view is zoomed in.

• Requires manual evaluation and further consideration to determine how to report.

• dH will be decreased.

The dH limit to trigger this flag is assay dependent.



Action Steps for “No Coagulation Error”

- **For PT/PTT**, Reanalyze the sample with an extended measurement time (within the range of 100 to 1800 seconds) or set the “Measurement Time (Sub)” in the test protocol.
- **For fibrinogen**, if auto-redilution is not set, change the dilution ratio and reanalyze.
- **After reanalysis** ,
 - Numerical result** without an asterisk (*), --- Report the result
 - “**No Coagulation**” again - Report ‘**No Clot**’ result.
- **If reanalysis gives a (***) result with different flag, follow the rules for those flags.**

Example 17

Status = Review
 Mode = Micro
 Result = *****(PTINR)
 Flag = No Coagulation

Action = check for clot,
 Re-analyse, Run @ longer
 measurement

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***** Graph Detail Print *****

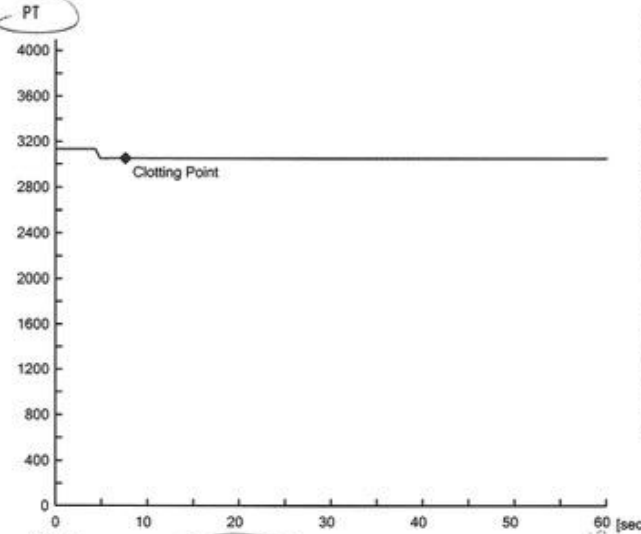
admin: administrator

Sample No: 54945327 B
 Rack Tube Pos: 000003-01
 Status: Review
 S. Code:
 Analysis Mode: Micro
 Patient Name:
 Sample Comment:
 Sample Info.: -

Seq: F
 Re-analysis flag:
 Validate:
 Validated on: 2020/06/29 13:28:41
 Validated by: SYSTEM

①
 First Run

Meas. Date: 2020/06/29 13:19:54



Result
 PT ***** sec
 INR *****
 check clot, Repeat

Evaluation Info.
 bh_point_time 7.5
 bh 3050
 End_point_time 7.5
 dh 0
 Coag. % 50
 dOD 0.0000
 Slope 0.00

Measurement Info.
 Temperature 37.0
 Channel No. 3
 Management ID 3023
 Dilution 1 / 1
 Reagent Lot PT Inn 549759
 Elapsed Time PT Inn 4

Detail
 0032.0000.0000 No Coagulation
 0032.0000.0000 No Coagulation

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/29 10:28:29

Evaluation Data			
1%	7.6	21%	7.6
2%	7.6	22%	7.6
3%	7.6	23%	7.6
4%	7.6	24%	7.6
5%	7.6	25%	7.6
6%	7.6	26%	7.6
7%	7.6	27%	7.6
8%	7.6	28%	7.6
9%	7.6	29%	7.6
10%	7.6	30%	7.6
11%	7.6	31%	7.6
12%	7.6	32%	7.6
13%	7.6	33%	7.6
14%	7.6	34%	7.6
15%	7.6	35%	7.6
16%	7.6	36%	7.6
17%	7.6	37%	7.6
18%	7.6	38%	7.6
19%	7.6	39%	7.6
20%	7.6	40%	7.6
		41%	7.6
		42%	7.6
		43%	7.6
		44%	7.6
		45%	7.6
		46%	7.6
		47%	7.6
		48%	7.6
		49%	7.6
		50%	7.6
		51%	7.6
		52%	7.6
		53%	7.6
		54%	7.6
		55%	7.6
		56%	7.6
		57%	7.6
		58%	7.6
		59%	7.6
		60%	7.6

Reagent Table		Temp.
61%	7.6	10.1
62%	7.6	7.6
63%	7.6	7.6
64%	7.6	7.6
65%	7.6	7.6
66%	7.6	7.6
67%	7.6	7.6
68%	7.6	7.6
69%	7.6	7.6
70%	7.6	7.6
71%	7.6	7.6
72%	7.6	7.6
73%	7.6	7.6
74%	7.6	7.6
75%	7.6	7.6
76%	7.6	7.6
77%	7.6	7.6
78%	7.6	7.6
79%	7.6	7.6
80%	7.6	7.6
81%	7.6	7.6
82%	7.6	7.6
83%	7.6	7.6
84%	7.6	7.6
85%	7.6	7.6
86%	7.6	7.6
87%	7.6	7.6
88%	7.6	7.6
89%	7.6	7.6
90%	7.6	7.6
91%	7.6	7.6
92%	7.6	7.6
93%	7.6	7.6
94%	7.6	7.6
95%	7.6	7.6
96%	7.6	7.6
97%	7.6	7.6
98%	7.6	7.6
99%	7.6	7.6
100%	7.6	7.6

Example 17

After re-analysis,

Result **** (PTT)
 Flag changed to ERE –Slow
 reaction
DO NOT Report the result

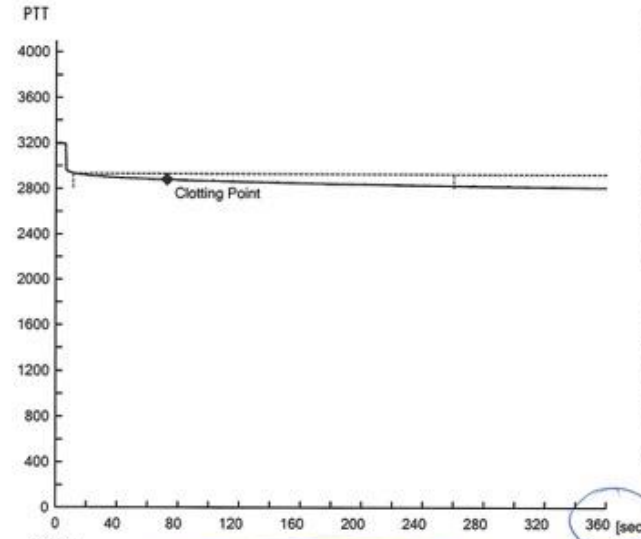
CS-5100 25631-1

admin : administrator

**** Graph Detail Print ****

Sample No: 54945327 B Seq: F
 Rack Tube Pos: 000002-04 Re-analysis flag:
 Status: Review Validate:
 S. Code: Micro Validated on: 2020/06/29 12:41:45
 Analysis Mode: Micro Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/29 12:27:16

Performed
 SYSTEM
After Repeat



Result
 PTT ****. * sec
Do not Report

Evaluation Info.
 bh_point_time 11.4
 bh 2933
 End_point_time 260.2
 dh 100
 Coag. % 50
 d0D 0.0151

Measurement Info.
 Temperature 37.1
 Channel No. 6
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 1
 CaCl2 0

Detail
 0008.0128.0001 Early Reaction Error : Slow Reaction

Hem Detection Level
 Tot Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/29
 11:59:00

Evaluation Data				Reagent Table Temp.			
1%	13.0	21%	27.6	41%	53.0	61%	102.2
2%	13.4	22%	27.8	42%	55.2	62%	104.6
3%	13.7	23%	29.0	43%	57.4	63%	108.8
4%	15.6	24%	29.9	44%	60.0	64%	110.5
5%	15.9	25%	30.8	45%	61.5	65%	114.2
6%	16.6	26%	31.8	46%	64.0	66%	119.0
7%	17.2	27%	33.0	47%	67.0	67%	121.0
8%	17.4	28%	34.4	48%	68.6	68%	124.3
9%	18.0	29%	35.0	49%	71.2	69%	126.7
10%	18.3	30%	36.7	50%	72.7	70%	130.1
11%	19.4	31%	37.0	51%	74.6	71%	134.7
12%	20.2	32%	39.4	52%	77.4	72%	136.6
13%	20.7	33%	40.2	53%	79.5	73%	141.1
14%	21.9	34%	41.0	54%	81.4	74%	143.8
15%	22.2	35%	43.3	55%	85.3	75%	148.1
16%	22.7	36%	44.6	56%	87.0	76%	151.7
17%	23.6	37%	46.1	57%	88.8	77%	156.3
18%	24.8	38%	48.7	58%	93.9	78%	158.6
19%	25.1	39%	49.9	59%	95.7	79%	163.6
20%	26.2	40%	51.8	60%	98.3	80%	167.7

Example 17

After re-analysis @ longer measurement,

Result **** (PTT)
 Flag = **ERE –Slow** reaction
 DO NOT Report the result

CS-5100 25631-1 admin : administrator

***** Graph Detail Print *****

Sample No:	54945327 B	Seq:	F
Rack Tube Pos:	000002-04	Re-analysis flag:	
Status:	Review	Validate:	Performed
S. Code:		Validated on:	2020/06/29 12:41:45
Analysis Mode:	Micro	Validated by:	SYSTEM
Patient Name:			<i>After Repeat</i>
Sample Comment:			
Sample Info.:	-	Meas. Date:	2020/06/29 12:27:16

Result
PTT ***** sec

Do not Report

Evaluation Info.

bH_point_time	11.4
bH	2933
End_point_time	260.2
dH	100
Coag. %	50
dOD	0.0151

Measurement Info.

Temperature	37.1
Channel No.	6
Management ID	3290
Dilution	1 / 1
Reagent Lot	APTT FSL 556997
CaCl2	563872

Elapsed Time

APTT FSL 1	
CaCl2	0

Detail
0008.0128.0001 Early Reaction Error : Slow Reaction

Hem Detection Level				QC Performed Date 2020/06/29			
Tot Detection Level				11:59:00			
Lip Detection Level				Reagent Table Temp. 10.0			
Vol Detection Level							
Calibration Curve ID							

<p>Evaluation Data</p> <table border="0"> <tr><td>1%</td><td>13.0</td><td>21%</td><td>27.6</td><td>41%</td><td>53.0</td></tr> <tr><td>2%</td><td>13.4</td><td>22%</td><td>27.8</td><td>42%</td><td>55.2</td></tr> <tr><td>3%</td><td>13.7</td><td>23%</td><td>29.0</td><td>43%</td><td>57.4</td></tr> <tr><td>4%</td><td>15.6</td><td>24%</td><td>29.9</td><td>44%</td><td>60.0</td></tr> <tr><td>5%</td><td>15.9</td><td>25%</td><td>30.8</td><td>45%</td><td>61.5</td></tr> <tr><td>6%</td><td>16.6</td><td>26%</td><td>31.8</td><td>46%</td><td>64.0</td></tr> <tr><td>7%</td><td>17.2</td><td>27%</td><td>33.0</td><td>47%</td><td>67.0</td></tr> <tr><td>8%</td><td>17.4</td><td>28%</td><td>34.4</td><td>48%</td><td>68.6</td></tr> <tr><td>9%</td><td>18.0</td><td>29%</td><td>35.0</td><td>49%</td><td>71.2</td></tr> <tr><td>10%</td><td>18.3</td><td>30%</td><td>36.7</td><td>50%</td><td>72.7</td></tr> <tr><td>11%</td><td>19.4</td><td>31%</td><td>37.0</td><td>51%</td><td>74.6</td></tr> <tr><td>12%</td><td>20.2</td><td>32%</td><td>39.4</td><td>52%</td><td>77.4</td></tr> <tr><td>13%</td><td>20.7</td><td>33%</td><td>40.2</td><td>53%</td><td>79.5</td></tr> <tr><td>14%</td><td>21.9</td><td>34%</td><td>41.0</td><td>54%</td><td>81.4</td></tr> <tr><td>15%</td><td>22.2</td><td>35%</td><td>43.3</td><td>55%</td><td>85.3</td></tr> <tr><td>16%</td><td>22.7</td><td>36%</td><td>44.6</td><td>56%</td><td>87.0</td></tr> <tr><td>17%</td><td>23.6</td><td>37%</td><td>46.1</td><td>57%</td><td>88.8</td></tr> <tr><td>18%</td><td>24.8</td><td>38%</td><td>48.7</td><td>58%</td><td>93.9</td></tr> <tr><td>19%</td><td>25.1</td><td>39%</td><td>49.9</td><td>59%</td><td>95.7</td></tr> <tr><td>20%</td><td>26.2</td><td>40%</td><td>51.8</td><td>60%</td><td>98.3</td></tr> </table>	1%	13.0	21%	27.6	41%	53.0	2%	13.4	22%	27.8	42%	55.2	3%	13.7	23%	29.0	43%	57.4	4%	15.6	24%	29.9	44%	60.0	5%	15.9	25%	30.8	45%	61.5	6%	16.6	26%	31.8	46%	64.0	7%	17.2	27%	33.0	47%	67.0	8%	17.4	28%	34.4	48%	68.6	9%	18.0	29%	35.0	49%	71.2	10%	18.3	30%	36.7	50%	72.7	11%	19.4	31%	37.0	51%	74.6	12%	20.2	32%	39.4	52%	77.4	13%	20.7	33%	40.2	53%	79.5	14%	21.9	34%	41.0	54%	81.4	15%	22.2	35%	43.3	55%	85.3	16%	22.7	36%	44.6	56%	87.0	17%	23.6	37%	46.1	57%	88.8	18%	24.8	38%	48.7	58%	93.9	19%	25.1	39%	49.9	59%	95.7	20%	26.2	40%	51.8	60%	98.3	<p>-> 50% 72.7</p>	
1%	13.0	21%	27.6	41%	53.0																																																																																																																					
2%	13.4	22%	27.8	42%	55.2																																																																																																																					
3%	13.7	23%	29.0	43%	57.4																																																																																																																					
4%	15.6	24%	29.9	44%	60.0																																																																																																																					
5%	15.9	25%	30.8	45%	61.5																																																																																																																					
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9%	18.0	29%	35.0	49%	71.2																																																																																																																					
10%	18.3	30%	36.7	50%	72.7																																																																																																																					
11%	19.4	31%	37.0	51%	74.6																																																																																																																					
12%	20.2	32%	39.4	52%	77.4																																																																																																																					
13%	20.7	33%	40.2	53%	79.5																																																																																																																					
14%	21.9	34%	41.0	54%	81.4																																																																																																																					
15%	22.2	35%	43.3	55%	85.3																																																																																																																					
16%	22.7	36%	44.6	56%	87.0																																																																																																																					
17%	23.6	37%	46.1	57%	88.8																																																																																																																					
18%	24.8	38%	48.7	58%	93.9																																																																																																																					
19%	25.1	39%	49.9	59%	95.7																																																																																																																					
20%	26.2	40%	51.8	60%	98.3																																																																																																																					

25631/01-18 build40 1/1 2020/06/29 12:59

Example 17

After re-analysis

Mode = micro

Result = ***

Flag = No Coag again

Curve = Staright line

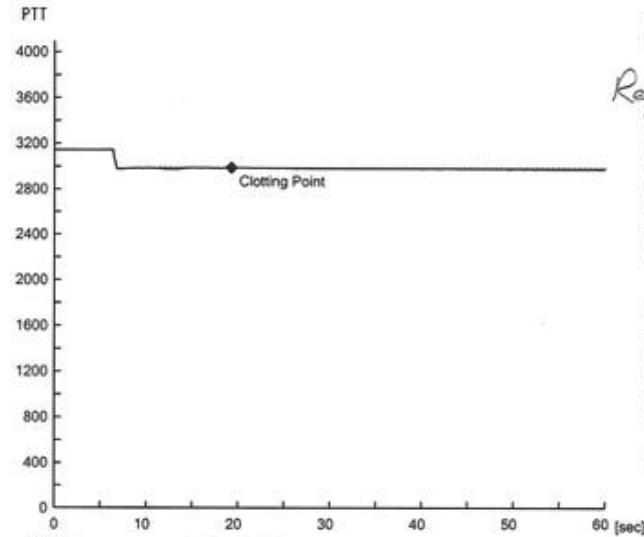
Evaluation data = no progression,
same number

Report = No Clot

***** Graph Detail Print *****

Sample No: 54952206 M Seq: F
 Rack Tube Pos: 000002-05 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Validated on: 2020/06/29 13:10:45
 Analysis Mode: Micro Validated by: admin
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/29 12:17:40

After Repeat



Result PTT ***** sec

Repeat - No Clot

Evaluation Info.
 bh_point_time 19.2
 bh 2990
 End_point_time 19.2
 dh 0
 Coag. % 50
 d00 0.0000

Measurement Info.
 Temperature 37.0
 Channel No. 2
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 1
 CaCl2 0

Detail
 0032.0000.0000 *No. Coagulation*

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/29
 11:59:00

Evaluation Data	
1%	19.3
2%	19.3
3%	19.3
4%	19.3
5%	19.3
6%	19.3
7%	19.3
8%	19.3
9%	19.3
10%	19.3
11%	19.3
12%	19.3
13%	19.3
14%	19.3
15%	19.3
16%	19.3
17%	19.3
18%	19.3
19%	19.3
20%	19.3

21%	19.3
22%	19.3
23%	19.3
24%	19.3
25%	19.3
26%	19.3
27%	19.3
28%	19.3
29%	19.3
30%	19.3
31%	19.3
32%	19.3
33%	19.3
34%	19.3
35%	19.3
36%	19.3
37%	19.3
38%	19.3
39%	19.3
40%	19.3

->

Reagent Table	Temp.
61%	19.3
62%	19.3
63%	19.3
64%	19.3
65%	19.3
66%	19.3
67%	19.3
68%	19.3
69%	19.3
70%	19.3
71%	19.3
72%	19.3
73%	19.3
74%	19.3
75%	19.3
76%	19.3
77%	19.3
78%	19.3
79%	19.3
80%	19.3

Example 17

After re-analysis

Mode = micro

Result = ***

Flag = No Coag again

Curve = Straight line

Evaluation data = no progression,
same number

Report = No Clot

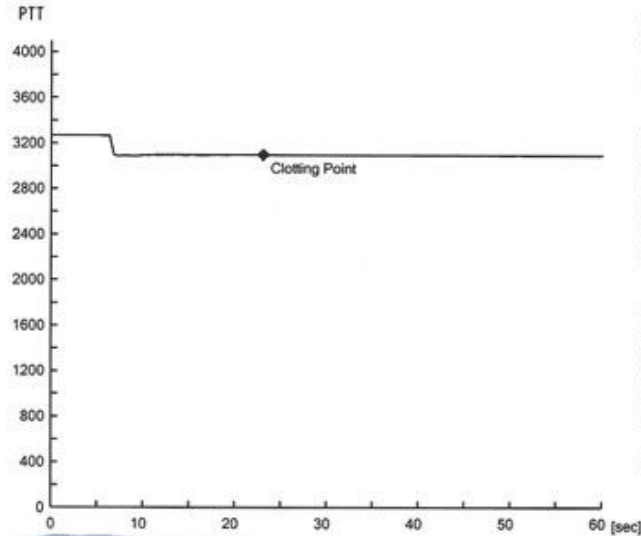
***** Graph Detail Print *****

Sample No: 54952206 B
 Rack Tube Pos: 000002-05
 Status: Review
 S. Code:
 Analysis Mode: Micro
 Patient Name:
 Sample Comment:
 Sample Info.: -

Seq: F
 Re-analysis flag:
 Validate:
 Validated on: 2020/06/29 12:41:54
 Validated by: SYSTEM

After Repeat

Meas. Date: 2020/06/29 12:27:25



Result PTT ***** sec

Report - No clot

Evaluation Info.
 bh_point_time 23.0
 bh 3102
 End_point_time 23.0
 dh 0
 Coag.% 50
 dOD 0.0000

Measurement Info.
 Temperature 37.0
 Channel No. 8
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 1
 CaCl2 0

Detail
 0032.0000.0000 No Coagulation

Hem Detection Level
 Iot Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/29 11:59:00

Evaluation Data

1%	23.1	21%	23.1	41%	23.1
2%	23.1	22%	23.1	42%	23.1
3%	23.1	23%	23.1	43%	23.1
4%	23.1	24%	23.1	44%	23.1
5%	23.1	25%	23.1	45%	23.1
6%	23.1	26%	23.1	46%	23.1
7%	23.1	27%	23.1	47%	23.1
8%	23.1	28%	23.1	48%	23.1
9%	23.1	29%	23.1	49%	23.1
10%	23.1	30%	23.1	50%	23.1
11%	23.1	31%	23.1	51%	23.1
12%	23.1	32%	23.1	52%	23.1
13%	23.1	33%	23.1	53%	23.1
14%	23.1	34%	23.1	54%	23.1
15%	23.1	35%	23.1	55%	23.1
16%	23.1	36%	23.1	56%	23.1
17%	23.1	37%	23.1	57%	23.1
18%	23.1	38%	23.1	58%	23.1
19%	23.1	39%	23.1	59%	23.1
20%	23.1	40%	23.1	60%	23.1

Reagent Table Temp. 10.0

61%	23.1	81%	23.1
62%	23.1	82%	23.1
63%	23.1	83%	23.1
64%	23.1	84%	23.1
65%	23.1	85%	23.1
66%	23.1	86%	23.1
67%	23.1	87%	23.1
68%	23.1	88%	23.1
69%	23.1	89%	23.1
70%	23.1	90%	23.1
71%	23.1	91%	23.1
72%	23.1	92%	23.1
73%	23.1	93%	23.1
74%	23.1	94%	23.1
75%	23.1	95%	23.1
76%	23.1	96%	23.1
77%	23.1	97%	23.1
78%	23.1	98%	23.1
79%	23.1	99%	23.1
80%	23.1	100%	23.1

Example 18

Status = Review

Mode = Micro

Result = ***(PTT)

Flag = No Coagulation

Evaluation data = shows no progression, single value

Curve = st line

Action = check clot, re-analyze at longer wavelength

CS-5100 25631-1 admin: administrator

***** Graph Detail Print *****

Sample No:	000002-03	Seq:	F
Rack Tube Pos:	54938767 B	Re-analysis flag:	
Status:	Review	Validate:	Performed
S. Code:		Validated on:	2020/06/29 12:23:18
Analysis Mode:	Micro	Validated by:	SYSTEM
Patient Name:			
Sample Comment:			
Sample Info.:	-	Meas. Date:	2020/06/29 12:16:01

PTT

4000
3600
3200
2800
2400
2000
1600
1200
800
400
0

0 10 20 30 40 50 60 [sec]

Clotting Point

check clot, To Repeat

Result PTT ***** sec

Evaluation Info.

bH_point_time	49.3
bH	3115
End_point_time	49.3
dH	0
Coag. %	50
dOD	0.0000

Measurement Info.

Temperature	37.0
Channel No.	8
Management ID	3290
Dilution	1 / 1
Reagent Lot	APTT FSL 556997
	CaCl2 563872
Elapsed Time	APTT FSL 1
	CaCl2 0

Detail
0032.0000.0000 No Coagulation

Hem Detection Level			
Ict Detection Level			
Lip Detection Level			
Vol Detection Level			
Calibration Curve ID			
QC Performed Date	2020/06/29 11:59:00		

Evaluation Data			
1%	49.3	21%	49.3
2%	49.3	22%	49.3
3%	49.3	23%	49.3
4%	49.3	24%	49.3
5%	49.3	25%	49.3
6%	49.3	26%	49.3
7%	49.3	27%	49.3
8%	49.3	28%	49.3
9%	49.3	29%	49.3
10%	49.3	30%	49.3
11%	49.3	31%	49.3
12%	49.3	32%	49.3
13%	49.3	33%	49.3
14%	49.3	34%	49.3
15%	49.3	35%	49.3
16%	49.3	36%	49.3
17%	49.3	37%	49.3
18%	49.3	38%	49.3
19%	49.3	39%	49.3
20%	49.3	40%	49.3
41%	49.3	51%	49.3
42%	49.3	52%	49.3
43%	49.3	53%	49.3
44%	49.3	54%	49.3
45%	49.3	55%	49.3
46%	49.3	56%	49.3
47%	49.3	57%	49.3
48%	49.3	58%	49.3
49%	49.3	59%	49.3
50%	49.3	60%	49.3

25631/01-18 buil d40 1/1 2020/06/29 13:09

Example 18

After re-analysis,

Result = ***(PTT)

Flag = Changed to ERE – slow reaction

and Upper report

Evaluation data = PTT at 50% 348.6 sec

Report = >139 sec

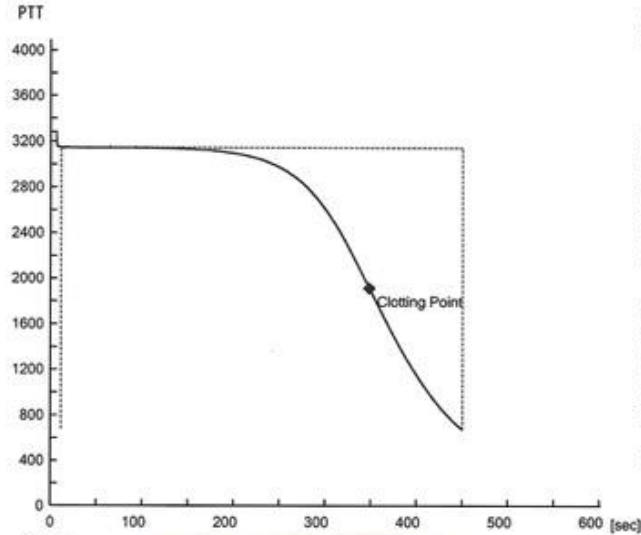
CS-5100 25631-1

admin: administrator

***** Graph Detail Print *****

Sample No: 54938767 B Seq: F
 Rack Tube Pos: 000002-03 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Validated on: 2020/06/29 12:41:36
 Analysis Mode: Micro Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/29 12:27:07

Repeat
↓



Result PTT ***** sec

Report -> 139 sec

Evaluation Info.
 bh_point_time 11.5
 bh 3150
 End_point_time 450.7
 dH 2473
 Coag.% 50
 dOD 0.6704

Measurement Info.
 Temperature 37.1
 Channel No. 5
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 1
 CaCl2 0

Detail
 0008.0128.0001 Early Reaction Error : Slow Reaction
 0000.6000.0100 Upper Report Limit Over

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/29 11:59:00

Evaluation Data					
1%	172.5	21%	298.5	41%	334.7
2%	200.0	22%	300.8	42%	336.3
3%	216.0	23%	302.9	43%	337.8
4%	227.1	24%	305.0	44%	339.3
5%	236.3	25%	307.1	45%	340.8
6%	243.7	26%	309.0	46%	342.4
7%	250.3	27%	311.0	47%	344.0
8%	255.7	28%	312.9	48%	345.5
9%	260.6	29%	314.8	49%	347.0
10%	265.2	30%	316.5	50%	348.6
11%	269.2	31%	318.4	51%	350.1
12%	273.0	32%	320.2	52%	351.6
13%	276.6	33%	321.8	53%	353.2
14%	279.8	34%	323.5	54%	354.7
15%	282.8	35%	325.1	55%	356.3
16%	285.8	36%	326.8	56%	357.8
17%	288.6	37%	328.5	57%	359.4
18%	291.2	38%	329.9	58%	360.9
19%	293.6	39%	331.6	59%	362.6
20%	296.1	40%	333.1	60%	364.1

Reagent Table Temp. 10.0			
61%	365.7	81%	400.8
62%	367.3	82%	402.7
63%	368.9	83%	404.7
64%	370.5	84%	406.9
65%	372.2	85%	409.0
66%	373.8	86%	411.1
67%	375.4	87%	413.4
68%	377.1	88%	415.7
69%	378.8	89%	418.0
70%	380.6	90%	420.5
71%	382.2	91%	423.1
72%	384.0	92%	425.6
73%	385.8	93%	428.2
74%	387.6	94%	430.9
75%	389.4	95%	433.9
76%	391.1	96%	436.9
77%	393.0	97%	439.9
78%	394.8	98%	443.1
79%	396.8	99%	446.6
80%	398.8	100%	450.3

Example 19

Status = Review

Mode = Micro

Result = ****(PTT)

Flag = No Coagulation

Eval data = single value

Curve = straight line

Action = check for clot,
Re-analyse, Run @ longer
measurement

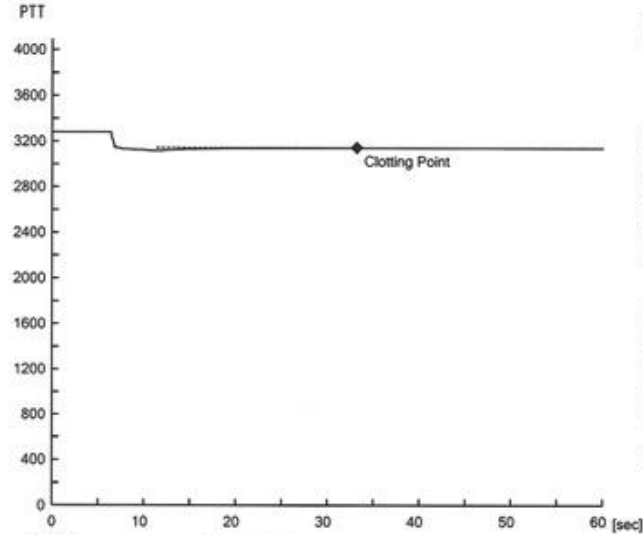
CS-5100 25631-1

***** Graph Detail Print *****

admin: administrator

Sample No: 54945307 B Seq: F
 Rack Tube Pos: 000002-01 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Validate on: 2020/06/29 12:23:00
 Analysis Mode: Micro Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/29 12:15:43

First Run



Result
PTT ****. * sec

Evaluation Info.
 bH_point_time 33.1
 bH 3146
 End_point_time 33.1
 dH 0
 Coag. % 50
 dOD 0.0000

Measurement Info.
 Temperature 37.0
 Channel No. 5
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 1
 CaCl2 0

Detail
0032.0000.0000 No Coagulation

Hem Detection Level
 Tot Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/29
 11:59:00

Evaluation Data					
1%	33.2	21%	33.2	41%	33.2
2%	33.2	22%	33.2	42%	33.2
3%	33.2	23%	33.2	43%	33.2
4%	33.2	24%	33.2	44%	33.2
5%	33.2	25%	33.2	45%	33.2
6%	33.2	26%	33.2	46%	33.2
7%	33.2	27%	33.2	47%	33.2
8%	33.2	28%	33.2	48%	33.2
9%	33.2	29%	33.2	49%	33.2
10%	33.2	30%	33.2	50%	33.2
11%	33.2	31%	33.2	51%	33.2
12%	33.2	32%	33.2	52%	33.2
13%	33.2	33%	33.2	53%	33.2
14%	33.2	34%	33.2	54%	33.2
15%	33.2	35%	33.2	55%	33.2
16%	33.2	36%	33.2	56%	33.2
17%	33.2	37%	33.2	57%	33.2
18%	33.2	38%	33.2	58%	33.2
19%	33.2	39%	33.2	59%	33.2
20%	33.2	40%	33.2	60%	33.2

25631/01-18 build40

1/1

Reagent Table Temp. 10.1			
61%	33.2	81%	33.2
62%	33.2	82%	33.2
63%	33.2	83%	33.2
64%	33.2	84%	33.2
65%	33.2	85%	33.2
66%	33.2	86%	33.2
67%	33.2	87%	33.2
68%	33.2	88%	33.2
69%	33.2	89%	33.2
70%	33.2	90%	33.2
71%	33.2	91%	33.2
72%	33.2	92%	33.2
73%	33.2	93%	33.2
74%	33.2	94%	33.2
75%	33.2	95%	33.2
76%	33.2	96%	33.2
77%	33.2	97%	33.2
78%	33.2	98%	33.2
79%	33.2	99%	33.2
80%	33.2	100%	33.2

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Example 19

After re-analysis:

Result = ****

Flag changed to ERE-slow with Upper report

Evaluation data = 393.5 at 50%

Report = PTT > 139 sec

CS-5100 25631-1

admin: administrator

**** Graph Detail Print ****

Sample No: 54945307 B Seq: F
 Rack Tube Pos: 000002-01 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Validated on: 2020/06/29 12:41:18
 Analysis Mode: Micro Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/29 12:26:49

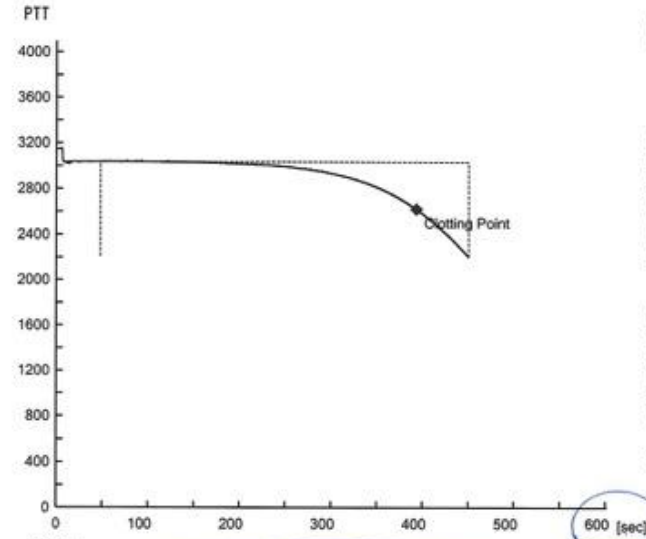
After Repeat

Result PTT ****. * sec

>139 sec

Evaluation Info.
 bh_point_time 48.1
 bh 3037
 End_point_time 450.7
 dh 826
 Coag. % 50
 dOD 0.1388

Measurement Info.
 Temperature 37.0
 Channel No. 2
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 1
 CaCl2 0



Detail
 0008.0128.0001 Early Reaction Error : Slow Reaction
 0000.6000.0100 Upper Report Limit Over

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/29 11:59:00

Evaluation Data

1%	171.2	21%	334.4	41%	378.9
2%	204.1	22%	337.4	42%	380.7
3%	225.5	23%	340.1	43%	382.5
4%	241.0	24%	343.3	44%	384.0
5%	252.5	25%	345.7	45%	385.5
6%	261.3	26%	348.4	46%	387.1
7%	269.4	27%	350.7	47%	388.7
8%	277.9	28%	353.2	48%	390.2
9%	284.1	29%	355.3	49%	391.6
10%	289.6	30%	357.5	50%	393.5
11%	295.0	31%	359.8	51%	394.8
12%	300.6	32%	361.8	52%	396.2
13%	305.1	33%	364.1	53%	397.4
14%	309.4	34%	366.0	54%	399.0
15%	313.3	35%	368.1	55%	400.5
16%	317.9	36%	370.0	56%	401.8
17%	321.4	37%	371.7	57%	403.0
18%	324.5	38%	373.4	58%	404.5
19%	328.1	39%	375.4	59%	405.8
20%	331.3	40%	377.3	60%	407.0

Reagent Table Temp. 10.0

61%	408.2	81%	431.5
62%	409.6	82%	432.4
63%	410.9	83%	433.5
64%	412.1	84%	434.6
65%	413.3	85%	435.5
66%	414.6	86%	436.6
67%	415.8	87%	437.5
68%	416.8	88%	438.6
69%	418.1	89%	439.6
70%	419.3	90%	440.6
71%	420.4	91%	441.5
72%	421.5	92%	442.5
73%	422.6	93%	443.5
74%	423.8	94%	444.4
75%	425.0	95%	445.3
76%	426.1	96%	446.3
77%	427.2	97%	447.2
78%	428.3	98%	448.3
79%	429.3	99%	449.1
80%	430.4	100%	450.2

1. Flat curve

This method checks the slope of the coagulation curve around the detection point (50%). When this condition is detected results will be flagged with a "Flat Curve" error. This check is effective for PT assay only.

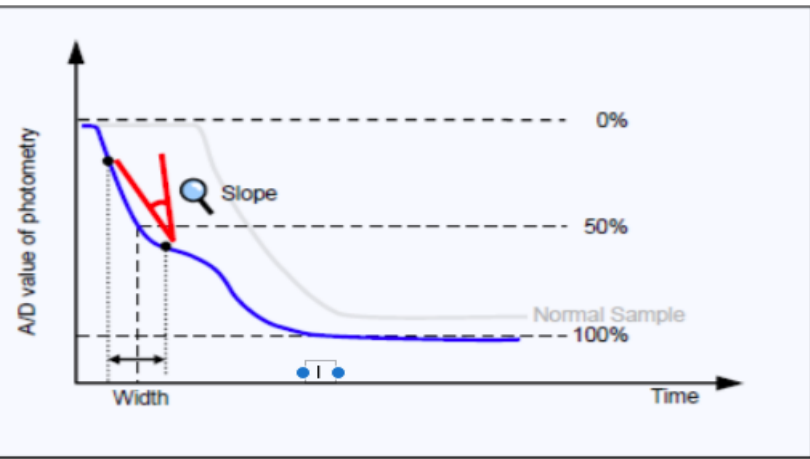
This message appears when the analyzer detected a weak clot although it is not a true coagulation reaction. If the slope of reaction is bigger than "Limit slope" in time width, the result will be flagged with a "Flat curve" error. When this condition is detected the result will not be reported.

Joblist	Masked ****.* result
Cause	No coagulation or a weak coagulation was detected. Due to possible low fibrinogen concentration, presence of anticoagulant, or a reagent issue.
Kinetic Evaluation	<ul style="list-style-type: none">• Reaction curve has no change or possible a very weak reaction if the view is zoomed in.• Requires manual evaluation and further consideration to determine how to report.• dH will be decreased. The dH limit to trigger this flag is assay dependent.

Action Steps for Flat Curve

Re-analyze sample after setting the "Measurement Time" to a longer time,

- Numeric results without an asterisk (*) –Report the result
- Same "**Flat curve**" message again – Do Not Report



Note: Zoom in to view the reaction of the curve to better determine if baseline, clotting phase and endpoint are visible. This makes comparison with the evaluation data 50% value easier.

Example 20

Status = review

Mode = Normal

Result = *** (PTINR)

Flag = Flat curve

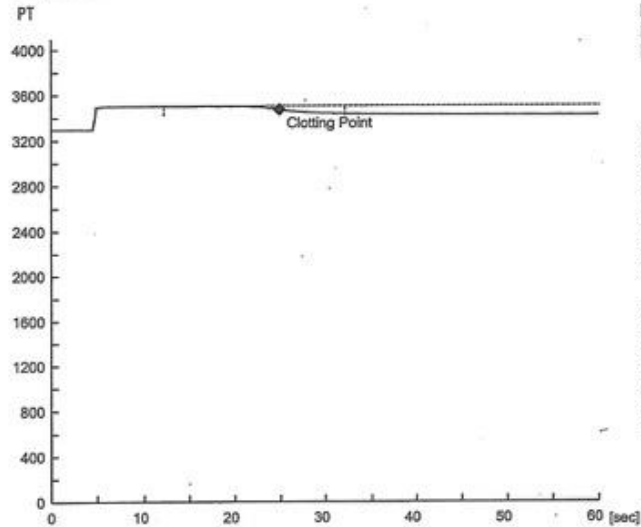
Action = check for clot and re-analyze

CS-2500 Chiko & amp: Mark

***** Graph Detail Print *****

admin: administrator

Sample No: MR SICK M Seq: 1
 Rack Tube Pos: 000003-02 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Validated on : 08/01/2019 08:51:08
 Analysis Mode: Normal Cp Validated by : SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: Meas. Date: 08/01/2019 08:35:20



Result
 PT ***** sec
 PT INR *****
To Repeat

Evaluation Info.
 bH_point_time 12.2
 bH 3500
 End_point_time 32.1
 dh 69
 Coag.% 50
 dOD 0.0086
 Slope 10.27

Measurement Info.
 Temperature 37.0
 Channel No. 5
 Management ID 1023
 Dilution Ratio 1 / 1
 Reagent Lot PT Inn 549727
 Elapsed Time PT Inn 19

Detail
 0032.0002.0000 Flat Curve
 0032.0002.0000 Flat Curve ✓

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level 53.1
 Calibration Curve ID
 QC Performed Date 08/01/2019
 08:37:27

Evaluation Data

1%	12.3	21%	23.3	41%	24.4
2%	12.4	22%	23.3	42%	24.4
3%	19.1	23%	23.3	43%	24.5
4%	19.3	24%	23.4	44%	24.5
5%	19.8	25%	23.5	45%	24.6
6%	21.4	26%	23.5	46%	24.6
7%	21.4	27%	23.5	47%	24.7
8%	21.5	28%	23.5	48%	24.8
9%	21.7	29%	23.6	49%	24.8
10%	21.7	30%	23.6	50%	24.9
11%	22.4	31%	23.7	51%	25.0
12%	22.6	32%	23.9	52%	25.0
13%	22.6	33%	23.9	53%	25.1
14%	22.7	34%	24.0	54%	25.1
15%	22.8	35%	24.0	55%	25.1
16%	23.0	36%	24.0	56%	25.2
17%	23.0	37%	24.1	57%	25.3
18%	23.1	38%	24.2	58%	25.3
19%	23.2	39%	24.2	59%	25.3
20%	23.2	40%	24.3	60%	25.4

Reagent Table Temp. 10.3

61%	25.5	81%	27.7
62%	25.5	82%	27.8
63%	25.6	83%	28.0
64%	25.9	84%	28.0
65%	25.9	85%	28.2
66%	26.0	86%	28.6
67%	26.1	87%	28.7
68%	26.1	88%	28.7
69%	26.1	89%	28.9
70%	26.2	90%	29.1
71%	26.2	91%	29.1
72%	26.4	92%	29.3
73%	26.6	93%	30.0
74%	26.7	94%	30.0
75%	26.7	95%	30.5
76%	27.0	96%	30.7
77%	27.2	97%	30.7
78%	27.2	98%	31.4
79%	27.4	99%	31.9
80%	27.7	100%	32.2

Example 20

After re-analysis
 If flat curve again = **Do Not**
 report the result
 even though you see some PT
 value at 50%

CS-2500 Chiko & Mark ***** Graph Detail Print ***** admin: administrator

Sample No: MR SICK M Seq: 1
 Rack Tube Pos: 000003-02 Re-analysis flag: Re-analysis Performed
 Status: Review Validate: 08/01/2019 08:51:08
 S. Code: Validated on : SYSTEM
 Analysis Mode: Normal Cp Validated by :
 Patient Name:
 Sample Comment:
 Sample Info.: Meas. Date: 08/01/2019 08:35:20

PT
 Result
 PT ***** sec
 PT INR *****

Evaluation Info.
 bH_point_time 15.2
 bH 3509
 End_point_time 32.9
 dH 69
 Cosg. % 50
 dOD 0.0085
 Slope 8.64

Measurement Info.
 Temperature 37.0
 Channel No. 5
 Management ID 1023
 Dilution Ratio 1 / 1
 Reagent Lot PT Inn 549727
 Elapsed Time PT Inn 19

Detail
 0032.0002.0000 Flat Curve
 0032.0002.0000 Flat Curve

ting reaction
Do not Reboot

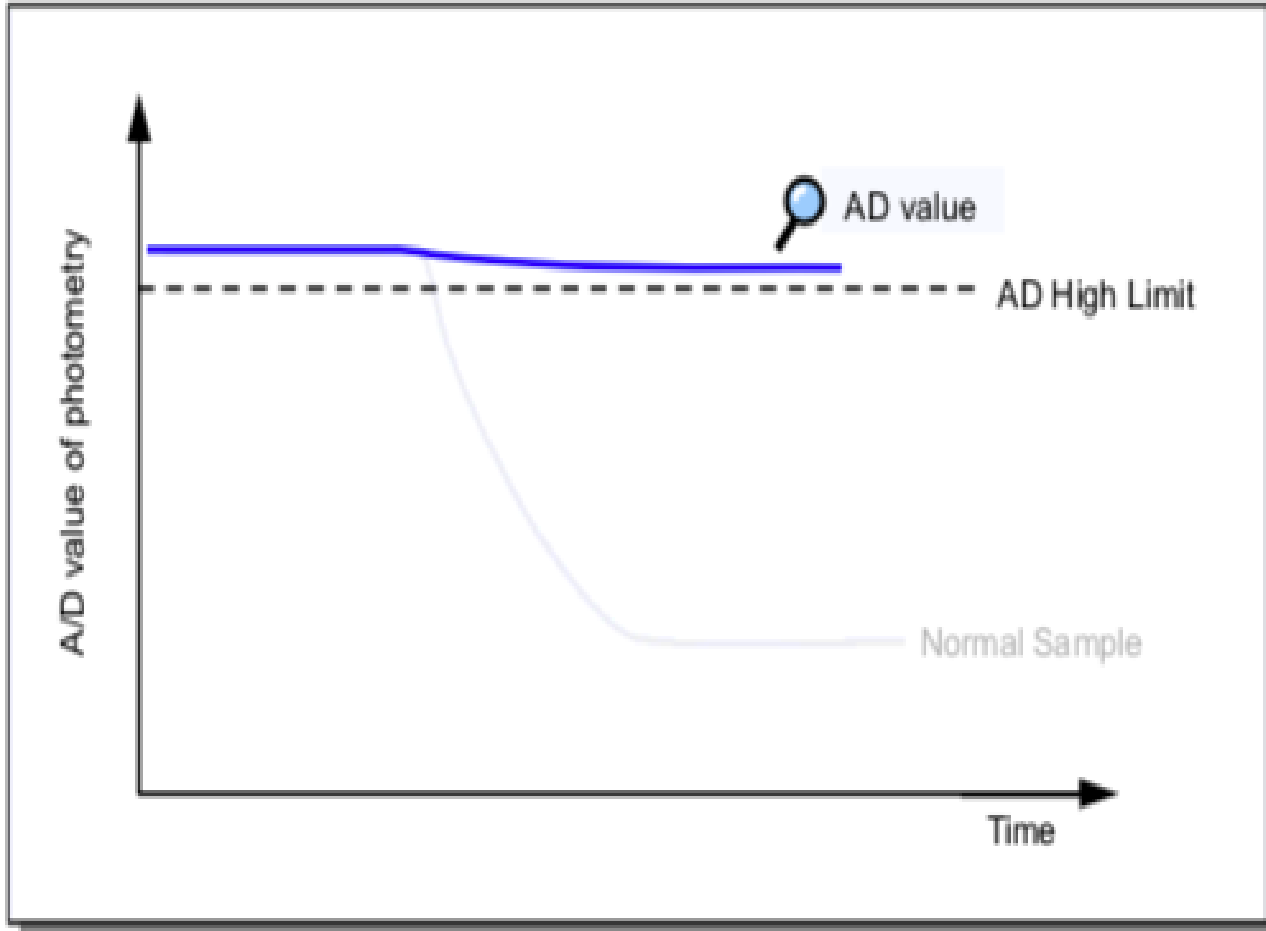
Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level 53.1
 Calibration Curve ID
 QC Performed Date 08/01/2019 08:37:27

Evaluation Data				Reagent Table Temp.			
1%	15.4	21%	23.7	41%	24.9	61%	26.2
2%	19.1	22%	23.9	42%	24.9	62%	26.2
3%	20.4	23%	23.9	43%	25.0	63%	26.4
4%	20.5	24%	24.0	44%	25.1	64%	26.5
5%	21.4	25%	24.0	45%	25.2	65%	26.5
6%	22.1	26%	24.0	46%	25.2	66%	26.6
7%	22.1	27%	24.2	47%	25.4	67%	26.7
8%	22.4	28%	24.3	48%	25.5	68%	26.7
9%	22.6	29%	24.3	49%	25.5	69%	26.8
10%	22.6	30%	24.3	50%	25.6	70%	27.0
11%	22.7	31%	24.4	51%	25.7	71%	27.0
12%	22.9	32%	24.5	52%	25.7	72%	27.2
13%	22.9	33%	24.5	53%	25.8	73%	27.3
14%	23.1	34%	24.5	54%	25.8	74%	27.5
15%	23.3	35%	24.6	55%	25.8	75%	27.5
16%	23.5	36%	24.6	56%	25.9	76%	27.7
17%	23.5	37%	24.6	57%	26.0	77%	27.8
18%	23.5	38%	24.7	58%	26.1	78%	27.8
19%	23.6	39%	24.7	59%	26.1	79%	28.0
20%	23.6	40%	24.8	60%	26.1	80%	28.1

21266/01-68 build 30 1/1 09/19/2019 11:41

Trans Light High Check

If the A/D value of the measurement data is at threshold value or above, the result will be flagged with a "Trans Light High" error. When this condition is detected the result will not be reported.



Action Steps for "Trans Light High"

1. Recalibrate the lamp or replace – depending upon the condition. Follow lamp replacement procedure.
2. Run sample on the alternate instrument.

1. Miscellaneous Flags:

Test	Flag	Action
D-Dimer assays	Antigen Excess	Report >35.2 mg/L FEU
Any Test	Upper Reportable Limit Over	Report >highest point of linearity PT>90sec, INR>10.3, PTT>139sec, FIB>860 mg/dL DDI>35.2 mg/LFEU,
Heparin Assay	Extrapolation Boundary over (upper)	Report >1.5 IU/mL
Arixtra	Extrapolation Boundary over (upper)	Report >1.0 mg/L
Any Test	Lower Report limit over	Check for clot, if ok, report PTT <20 sec, Fib <50 mg/dL,, DDI<0.19 mg/L FEU PT <8.7 sec

Example 21

Heparin assay

Status = Error

Code = extrapolation boundary

over

Result = >-----

Check sample integrity

- Validate if ok
- It will auto verify as >1.5 IU/mL

CS-5100 25632-2

**** List Print ****

Hep admin:administrator

Sample No: 10145859 B Seq: F
Rack Tube Pos.: 000004-01 Re-analysis flag:
Status: **Error** Validate: Performed
S. Code: Validated on: 2020/06/24 15:20
Analysis Mode: Normal Validated by: SYSTEM
Patient Name: HIGH ZZZYH
Sample Comment:
Sample Info.: - Meas. Date: 2020/06/24 15:17

INN-Hep > ---,-- IU/mL 0.048 d0D

Extrapolation Boundary Over (Upper)



Report >1.50 IU/mL

Example 22

Test = Heparin

Status = Error

Code = extrapolation boundary
over

Result = >-----

Check sample integrity

- Validate if ok
- It will auto verify as >1.5 IU/mL

CS-5100 25632-2

Sample No:
Rack Tube Pos:
Status:
S. Code:
Analysis Mode:
Patient Name:
Sample Comment:
Sample Info.:

000002-07
Error
Normal

***** Graph Detail Print *****
Seq: hep17 M
Re-analysis flag:
Validate:
Validated on :
Validated by :

Meas. Date:

Hep. admin: administrator

F
Performed
2020/06/05 12:57:33
SYSTEM

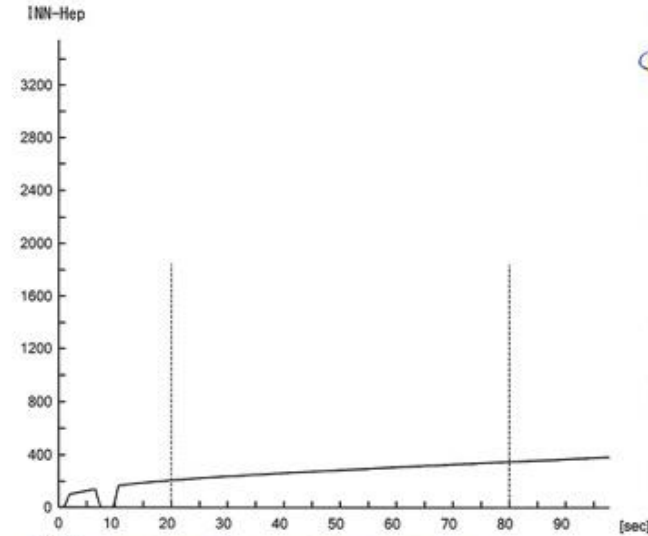
2020/06/05 12:50:08

Result
INN Hep_d00 0.141 d00
INN Hep IU_mL >----- IU/mL

Evaluation Info.
Start Time 20.0
End Time 80.0
Slope 0.14054
CC 1.00

Measurement Info.
Temperature 37.0
Channel No. 6
Management ID 2050
Dilution 1 / 1
Reagent Lot OVB 554647
IHepSub 554132
IHepRea 554032
Elapsed Time OVB 20
IHepSub 2
IHepRea 2

Hem Detection Level 0
Ict Detection Level
Lip Detection Level 0
Vol Detection Level
Calibration Curve ID 3
QC Performed Date
Reagent Table Temp. 10.1



Detail
0000.4000.0041 Extrapolation Boundary Over (Upper)

Report >1.50 IU/mL

Evaluation Data

Example 23

Arixtra

Status = Error

Code = extrapolation boundary over

Result = >----

Check sample integrity

- Validate if ok
- It will auto verify as >1.0 mg/mL

CS-5100 25618-3

Sample No:
Rack Tube Pos:
Status:
S. Code:
Analysis Mode:
Patient Name:
Sample Comment:
Sample Info.:

10145966 B
000004-05
Error
Micro
ADULT ZZZYH

**** Graph Detail Print ****

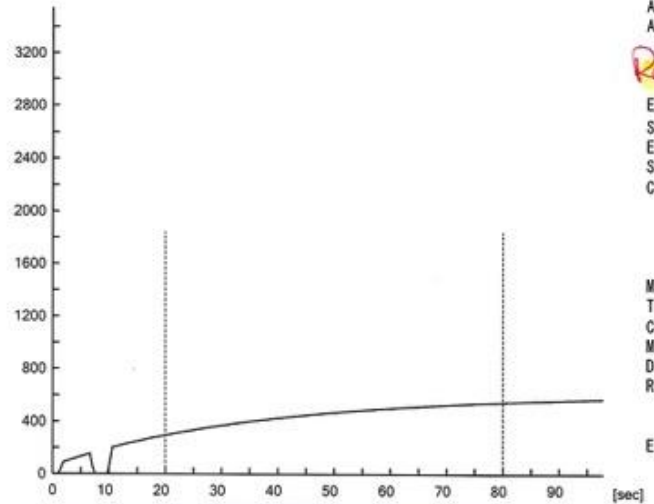
Seq:
Re-analysis flag:
Validate:
Validated on :
Validated by :

F
Performed
2020/06/25 13:43:43
SYSTEM

Arix admin: administrator

Meas. Date: 2020/06/25 13:40:20

Arixtra



Result
Arixtra d00 0.242 d00
Arixtra IU_mL >---- mg/L

Report > 1.0 mg/L

Evaluation Info.
Start Time 20.0
End Time 80.0
Slope 0.24208
CC 0.98

Measurement Info.
Temperature 37.0
Channel No. 2
Management ID 20002
Dilution 1 / 1
Reagent Lot OVB 554647
IHepSub 554132
IHepRea 554032
Elapsed Time OVB 3
IHepSub 1
IHepRea 1

Detail
0000.4000.0041 Extrapolation Boundary Over (Upper)

Hem Detection Level
Ict Detection Level
Lip Detection Level
Vol Detection Level
Calibration Curve ID 6
QC Performed Date 2020/06/25
12:47:01
Reagent Table Temp. 10.0

Evaluation Data

Example 23

CS-5100 25618-3

**** List Print ****

ZZYH, JANUARY
MR502354 DOB: 1/31/2020 Loc: UNK
10145911 Spec ID: 26Y-177C00828
Test: Arix
Tube: Blue Top
Methen AFlex 07/25/20 4:45 PM

Sample No: 10145911 B Seq: F
Rack Tube Pos.: 000001-01 Re-analysis flag:
Status: Error Validate: Performed
S. Code: Validated on: 2020/06/25 12:53
Analysis Mode: Micro Validated by: SYSTEM
Patient Name: JANUARY ZZYH
Sample Comment:
Sample Info.: - Meas. Date: 2020/06/25 12:50

Arixtra >--- mg/L 0.194 dOD

Extrapolation Boundary Over (Upper)

1.0 mg/L

Example 24

PTINR

Status = Review

Flag = Upper report Limit error

Action = check the integrity of the sample, clot

Action = send to host

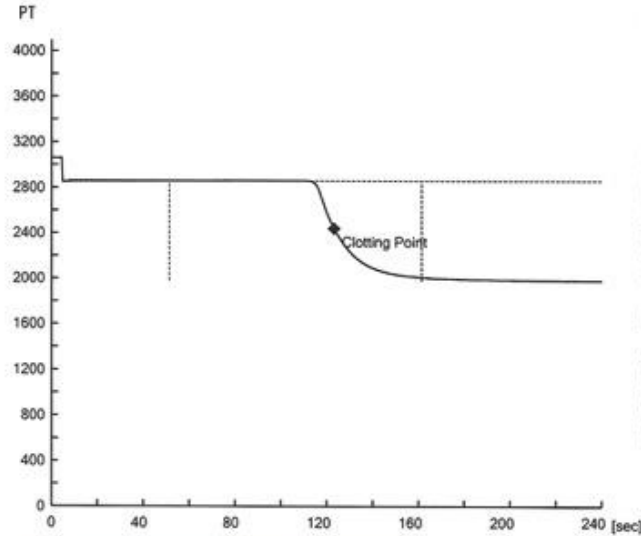
CS-5100 25618-3

PT INR

admin: administrator

***** Graph Detail Print *****

Sample No: 10146112 B Seq: F
 Rack Tube Pos: 000004-01 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Normal Validate on: 2020/06/28 12:49:36
 Analysis Mode: Normal Validated by: SYSTEM
 Patient Name: COAG ZZZYH
 Sample Comment:
 Sample Info: - Meas. Date: 2020/06/28 12:34:04



Result
 PT > 90.0 sec
 INR 14.55

Evaluation Info.
 bh_point_time 51.4
 bh 2860
 End_point_time 161.5
 dh 849
 Coag.% 50
 dOD 0.1529
 Slope 31.95

Measurement Info.
 Temperature 36.9
 Channel No. 2
 Management ID 3023
 Dilution 1 / 1
 Reagent Lot PT Inn 549759
 Elapsed Time PT Inn 2

Detail
 0000.6000.0100 Upper Report Limit Over

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level
 Calibration Curve ID 5
 QC Performed Date 2020/06/28 10:39:38

Evaluation Data

1%	113.8	21%	118.2	41%	121.4
2%	114.5	22%	118.4	42%	121.6
3%	114.9	23%	118.5	43%	121.8
4%	115.3	24%	118.6	44%	122.0
5%	115.5	25%	118.8	45%	122.2
6%	115.8	26%	118.9	46%	122.4
7%	116.0	27%	119.0	47%	122.7
8%	116.2	28%	119.2	48%	122.8
9%	116.4	29%	119.4	49%	123.1
10%	116.5	30%	119.5	50%	123.2
11%	116.8	31%	119.7	51%	123.5
12%	116.9	32%	119.8	52%	123.7
13%	117.0	33%	120.0	53%	124.0
14%	117.2	34%	120.1	54%	124.3
15%	117.4	35%	120.3	55%	124.4
16%	117.5	36%	120.5	56%	124.8
17%	117.6	37%	120.7	57%	125.0
18%	117.8	38%	120.9	58%	125.3
19%	118.0	39%	121.1	59%	125.5
20%	118.0	40%	121.2	60%	125.8

Reagent Table Temp.	10.1
61%	126.0
62%	126.3
63%	126.6
64%	126.9
65%	127.2
66%	127.5
67%	127.8
68%	128.1
69%	128.5
70%	128.8
71%	129.1
72%	129.5
73%	129.9
74%	130.3
75%	130.6
76%	131.1
77%	131.5
78%	132.0
79%	132.4
80%	132.9
81%	133.4
82%	134.0
83%	134.5
84%	135.1
85%	135.8
86%	136.4
87%	137.2
88%	138.0
89%	138.9
90%	139.8
91%	140.8
92%	141.9
93%	143.1
94%	144.6
95%	146.1
96%	148.0
97%	150.2
98%	153.2
99%	156.4
100%	161.5

DDI

Example 25

Status-Review

Flag = Upper report limit and dilution changed

Validate = send to host

CS-5100 25632-2

DDI

admin: administrator

**** Graph Detail Print ****

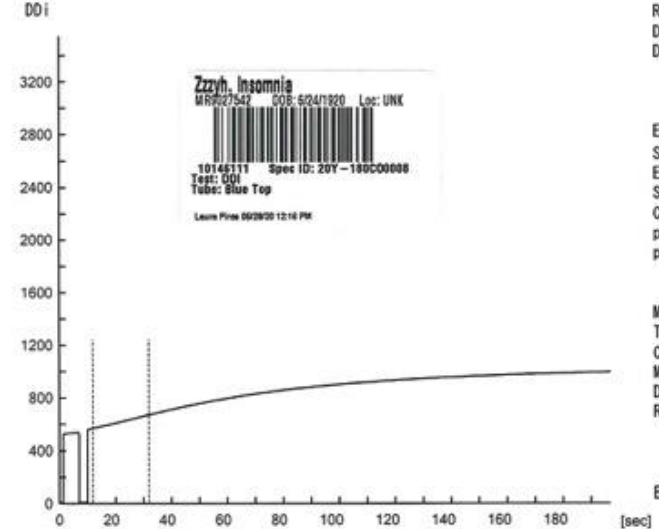
Sample No: 10146111 B Seq: F
 Rack Tube Pos: 000003-01 Re-analysis flag:
 Status: Review Validate: Performed
 S. Code: Normal Validate on: 2020/06/28 12:47:59
 Analysis Mode: Normal Validated by: SYSTEM
 Patient Name: INSOMNIA ZZZYH
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/28 12:33:58

Result
 DDI dOD d 0.311 dOD
 DDI > 35.20 mg/L

Evaluation Info.
 Start Time 12.0
 End Time 32.0
 Slope 0.31047
 CC 1.00
 proA_slope 0.29498
 proB_slope 0.09785

Measurement Info.
 Temperature 37.0
 Channel No. 2
 Management ID 2321
 Dilution 1 / 10
 Reagent Lot
 DDiDil 561684
 DDiSup 561884
 DDiBuf 561784
 DDiReag 561584
 Elapsed Time
 DDiDil 1
 DDiSup 1
 DDiBuf 1
 DDiReag 47

Hem Detection Level 0
 Ict Detection Level
 Lip Detection Level 0
 Vol Detection Level
 Calibration Curve ID 2
 QC Performed Date 2020/06/26
 08:23:45
 Reagent Table Temp. 10.2



Detail
 0000.0000.0000 Dilution Ratio was Changed.
 0000.6000.0100 Upper Report Limit Over

Evaluation Data

Example 26

Status = Error

Mode = Normal

Flag = The liquid level high risk

Result = *** for PTT

Action = re-analyze

CS-5100 25631-1

**** List Print ****

admin:administrator

Sample No: 10146108* B Seq: F
Rack Tube Pos.: 000002-01 Re-analysis flag:
Status: Error* Validate: Performed
S. Code: Analysis Mode: Normal Validated on: 2020/06/28 11:26
Patient Name: CSONE ZZZYH Validated by: SYSTEM
Sample Comment:
Sample Info.: - Meas. Date: 2020/06/28 11:16

PT 11.4 sec 1.06 INR
PTT * *** * sec
Fbg 241 mg/dL 8.2 sec

* The liquid level of vial is too high. (Rea

Sample No: 10146108* B Seq: F
Rack Tube Pos.: 000002-01 Re-analysis flag:
Status: Validate: Performed
S. Code: Analysis Mode: Micro Validated on: 2020/06/28 11:39
Patient Name: Validated by: SYSTEM
Sample Comment:
Sample Info.: Meas. Date: 2020/06/28 11:31

PTT < 20.0 sec

check for clot

Lower Report Limit Over

Small Plasma

(Register)
order the rack # and Me & test (PTT)
load the rack & hit start

Example 27

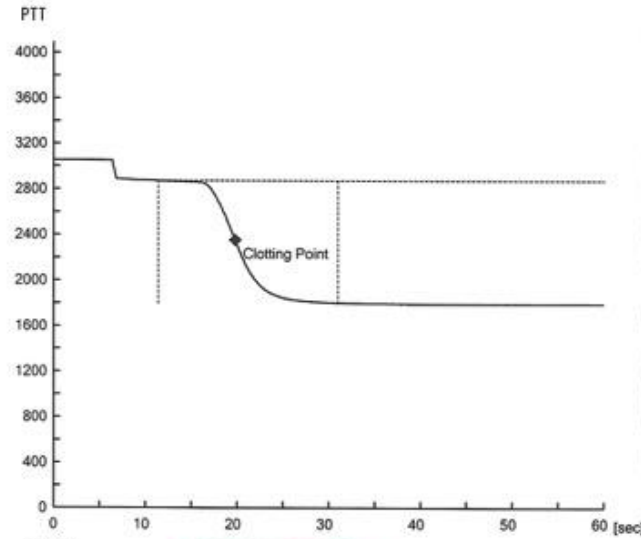
Action = Check for clot

CS-5100 25618-3

admin: administrator

***** Graph Detail Print *****

Sample No: 10146104 B Seq: F
 Rack Tube Pos: 000002-01 Re-analysis flag:
 Status: Validate: Performed
 S. Code: Validated on: 2020/06/28 11:07:24
 Analysis Mode: Normal Validated by: SYSTEM
 Patient Name: LOWPTT ZZZYH
 Sample Comment:
 Sample Info: - Meas. Date: 2020/06/28 10:59:58



Result
 PTT < 20.0 sec

Evaluation Info.
 bh_point_time 11.4
 bh 2872
 End_point_time 31.0
 dh 1069
 Coag. % 50
 dOD 0.2022

Measurement Info.
 Temperature 37.0
 Channel No. 2
 Management ID 3290
 Dilution 1 / 1
 Reagent Lot APTT FSL 556997
 CaCl2 563872
 Elapsed Time APTT FSL 0
 CaCl2 0

Detail
 0000.6000.0200 Lower Report Limit Over

check for clot

Hem Detection Level 0
 Iot Detection Level
 Lip Detection Level 0
 Vol Detection Level
 Calibration Curve ID
 QC Performed Date 2020/06/28
 10:41:07

Evaluation Data

1%	14.9	21%	18.2	41%	19.3
2%	16.2	22%	18.2	42%	19.4
3%	16.5	23%	18.2	43%	19.4
4%	16.7	24%	18.3	44%	19.4
5%	16.8	25%	18.4	45%	19.5
6%	17.0	26%	18.5	46%	19.6
7%	17.1	27%	18.5	47%	19.6
8%	17.2	28%	18.6	48%	19.7
9%	17.3	29%	18.6	49%	19.7
10%	17.4	30%	18.7	50%	19.8
11%	17.4	31%	18.8	51%	19.8
12%	17.5	32%	18.8	52%	19.9
13%	17.6	33%	18.8	53%	19.9
14%	17.7	34%	18.9	54%	19.9
15%	17.7	35%	19.0	55%	20.0
16%	17.8	36%	19.1	56%	20.1
17%	17.9	37%	19.1	57%	20.2
18%	18.0	38%	19.1	58%	20.2
19%	18.0	39%	19.2	59%	20.2
20%	18.1	40%	19.2	60%	20.3

-> 50% 19.8

Reagent Table Temp.	10.1		
61%	20.4	81%	21.8
62%	20.4	82%	21.9
63%	20.5	83%	22.0
64%	20.5	84%	22.2
65%	20.6	85%	22.3
66%	20.7	86%	22.4
67%	20.7	87%	22.6
68%	20.8	88%	22.7
69%	20.8	89%	22.9
70%	20.9	90%	23.1
71%	21.0	91%	23.3
72%	21.1	92%	23.5
73%	21.1	93%	23.8
74%	21.2	94%	24.1
75%	21.3	95%	24.5
76%	21.4	96%	25.0
77%	21.4	97%	25.6
78%	21.6	98%	26.5
79%	21.7	99%	27.9
80%	21.7	100%	31.0

Example 28

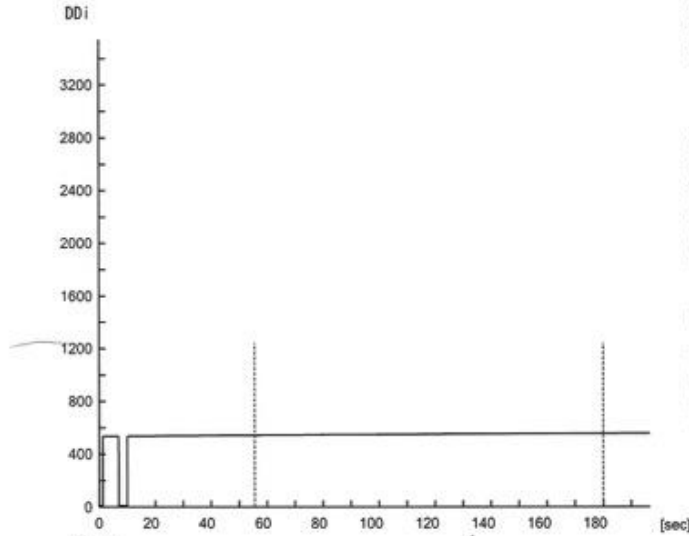
Verify

CS-5100 25632-2

Low - DDI admin: administrator

***** Graph Detail Print *****

Sample No: 10146115 B Seq: F
Rack Tube Pos: 000001-01 Re-analysis flag:
Status: Validate: Performed
S. Code: Validated on: 2020/06/28 13:21:23
Analysis Mode: Normal Validated by: SYSTEM
Patient Name: DDILOW ZZZYH
Sample Comment:
Sample Info.: - Meas. Date: 2020/06/28 13:14:33



Result
DDi d0D 0.006 d0D
DDi < 0.19 mg/L

Evaluation Info.
Start Time 55.6
End Time 180.0
Slope 0.00624
CC 0.99
proA_slope 0.01142
proB_slope 0.00654

Measurement Info.
Temperature 37.0
Channel No. 2
Management ID 2321
Dilution 1 / 1 ✓
Reagent Lot
DDiDil 561684
DDiSup 561884
DDiBuf 561784
DDiReag 561584
Elapsed Time
DDiDil 1
DDiSup 1
DDiBuf 1
DDiReag 47

Hem Detection Level 0
Ict Detection Level
Lip Detection Level 0
Vol Detection Level
Calibration Curve ID 2
QC Performed Date 2020/06/26
08:23:45
Reagent Table Temp. 10.2

Evaluation Data

Example 29

Normal vs. Micro sample

Sample No: 10145820 B Seq: 1
Rack Tube Pos.: 000002-03 Re-analysis flag:
Status: Review Validate: Performed
S. Code: Validated on: 2020/06/30 13:17
Analysis Mode: Normal Validated by: admin
Patient Name: CSTWO ZZZYH
Sample Comment:
Sample Info.: - Meas. Date: 2020/06/24 12:24

Fbg * 50 mg/dL * 58.6 sec

Slight Coagulation
Lower Report Limit Over

Sample No: 10145820 B Seq: 1
Rack Tube Pos.: 000002-03 Re-analysis flag: Re-analysis auto.
Status: Review Validate: Performed
S. Code: Validated on: 2020/06/30 13:17
Analysis Mode: Normal Validated by: admin
Patient Name: CSTWO ZZZYH
Sample Comment:
Sample Info.: - Meas. Date: 2020/06/24 12:24

Fbg < 50 mg/dL d 14.4 sec

Lower Report Limit Over
Dilution Ratio was Changed.

Sample No: 10145820 B Seq: F
Rack Tube Pos.: 000002-03 Re-analysis flag:
Status: Review Validate: Performed
S. Code: Validated on: 2020/06/30 13:17
Analysis Mode: Normal Validated by: admin
Patient Name: CSTWO ZZZYH
Sample Comment:
Sample Info.: - Meas. Date: 2020/06/24 12:24

Fbg < 50 mg/dL d 14.4 sec

Lower Report Limit Over
Dilution Ratio was Changed.

Example 29

After Re-analysis

Status = Review

Result = Fib<50

Check Dilution = 4/1

Action = send to host

CS-5100 25632-2 admin: administrator

***** Graph Detail Print *****

Sample No:	10145820 B	Seq:	F	2
Rack Tube Pos:	000002-03	Re-analysis flag:		
Status:	Review	Validate:	Performed	
S. Code:		Validated on:	2020/06/30 13:17:14	
Analysis Mode:	Normal	Validated by:	admin	
Patient Name:	CSTWD ZZZYH			
Sample Comment:				After reanalysis
Sample Info.:	-	Meas. Date:	2020/06/24 12:24:34	

Result	
Fbg sec	d 14.4 sec
Fbg C	< 50 mg/dL

Evaluation Info.	
bH_point_time	1.9
bH	2411
End_point_time	34.2
dH	106
Coag. S	50
d0D	0.0195

Measurement Info.	
Temperature	37.0
Channel No.	5
Management ID	3321
Dilution	4 / 1
Reagent Lot	OVB 554647
	Fbg 565060
Elapsed Time	OVB 3
	Fbg 0

Detail
0000.0000.0000 Dilution Ratio was Changed.
0000.6000.0200 Lower Report Limit Over

Hem Detection Level 0			
Ict Detection Level			
Lip Detection Level 0			
Vol Detection Level			
Calibration Curve ID 1			
QC Performed Date		2020/06/24 12:14:33	

Evaluation Data			
1%	6.2	21%	10.7
2%	6.6	22%	10.8
3%	6.9	23%	10.9
4%	7.5	24%	11.1
5%	7.7	25%	11.1
6%	7.9	26%	11.2
7%	8.4	27%	11.4
8%	8.5	28%	11.5
9%	8.7	29%	11.6
10%	8.8	30%	11.7
11%	9.0	31%	11.9
12%	9.2	32%	12.0
13%	9.4	33%	12.1
14%	9.7	34%	12.4
15%	9.8	35%	12.6
16%	9.9	36%	12.7
17%	10.1	37%	12.8
18%	10.2	38%	12.9
19%	10.4	39%	13.0
20%	10.5	40%	13.1

Reagent Table Temp. 10.1			
61%	16.3	81%	20.8
62%	16.4	82%	21.2
63%	16.5	83%	21.5
64%	16.6	84%	22.3
65%	16.7	85%	22.6
66%	16.9	86%	22.9
67%	17.6	87%	23.9
68%	17.8	88%	24.1
69%	18.0	89%	25.0
70%	18.1	90%	25.9
71%	18.2	91%	26.3
72%	18.5	92%	26.8
73%	18.7	93%	27.0
74%	19.0	94%	27.7
75%	19.4	95%	28.7
76%	19.6	96%	29.0
77%	19.7	97%	30.3
78%	19.8	98%	31.3
79%	20.3	99%	31.5
80%	20.6	100%	34.3

25632/01-18 build40 2020/06/30 13:29

Example 29

Status = review

Mode = Normal

Result = Fib ***50

Flag = Slight coag and lower report

Action = as sample is in normal mode, will re-analyse 4/1 dil

Results <50, report

```
CS-5100 25618-3                               admin:administrator
***** List Print *****

Sample No:      10145888 B                      Seq:          1
Rack Tube Pos.: 000003-02                      Re-analysis flag:
Status:         Review                          Validate:      Performed
S. Code:        Normal                          Validated on : 2020/06/25 11:48
Analysis Mode:  Normal                          Validated by : admin
Patient Name:   FIBCRIT ZZZYH
Sample Comment:
Sample Info.:   -                               Meas. Date:   2020/06/25 11:09

Fbg * 50 mg/dL * 48.2 sec                      Slight Coagulation
                                                Lower Report Limit Over

-----
Sample No:      10145888 B                      Seq:          1
Rack Tube Pos.: 000003-02                      Re-analysis flag: Re-analysis
Status:         Review                          Validate:      Performed
S. Code:        Normal                          Validated on : 2020/06/25 11:48
Analysis Mode:  Normal                          Validated by : admin
Patient Name:   FIBCRIT ZZZYH
Sample Comment:
Sample Info.:   -                               Meas. Date:   2020/06/25 11:09

Fbg < 50 mg/dL d 13.3 sec                      Lower Report Limit Over
                                                Dilution Ratio was Changed.

-----
Sample No:      10145888 B                      Seq:          F
Rack Tube Pos.: 000003-02                      Re-analysis flag:
Status:         Review                          Validate:      Performed
S. Code:        Normal                          Validated on : 2020/06/25 11:48
Analysis Mode:  Normal                          Validated by : admin
Patient Name:   FIBCRIT ZZZYH
Sample Comment:
Sample Info.:   -                               Meas. Date:   2020/06/25 11:09

Fbg < 50 mg/dL d 13.3 sec                      Lower Report Limit Over
                                                Dilution Ratio was Changed.
```

Example 30

Mode = Micro
 Fib 59
 Dil = 1/1

Alert** there is no flag and no status but sample in micro mode

DO NOT REPORT

Action =RUN at 4/1 dil

CS-5100 25618-3 admin: administrator

***** Graph Detail Print *****

Sample No: 10146302 B Seq: F
 Rack Tube Pos: 000006-01 Re-analysis flag:
 Status: Validate: Performed
 S. Code: Validated on: 2020/06/30 15:07:40
 Analysis Mode: Validated by: SYSTEM
 Patient Name: MICRO ZZZYH
 Sample Comment: Meas. Date: 2020/06/30 15:02:38
 Sample Info.: Fbg

Micro → no analysis
Fib < 80, vein @ 4/1 dil (manual programming)

Result
 Fbg sec 27.8 sec
 Fbg C 59 mg/dL

Evaluation Info.
 bH_point_time 1.9
 bH 3009
 End_point_time 52.0
 dH 77
 Coag. % 50
 dOD 0.0111

Measurement Info.
 Temperature 37.1
 Channel No. 2
 Management ID 3321
 Dilution 1 / 1
 Reagent Lot OVB 554672
 Fbg 565060
 Elapsed Time OVB 5
 Fbg 0

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID 1
 QC Performed Date 2020/06/29 12:24:09

Evaluation Data			
1%	2.1	21%	19.3
2%	3.6	22%	19.3
3%	6.4	23%	19.5
4%	10.9	24%	19.7
5%	11.0	25%	20.0
6%	11.9	26%	20.5
7%	12.6	27%	20.5
8%	13.5	28%	20.8
9%	13.5	29%	21.5
10%	14.0	30%	21.9
11%	15.3	31%	21.9
12%	15.5	32%	22.2
13%	16.2	33%	23.1
14%	16.2	34%	23.3
15%	17.3	35%	23.3
16%	17.4	36%	23.5
17%	17.9	37%	23.6
18%	17.9	38%	24.4
19%	18.0	39%	24.6
20%	18.2	40%	24.6
		41%	25.0
		42%	25.3
		43%	25.9
		44%	25.9
		45%	26.1
		46%	26.3
		47%	26.9
		48%	26.9
		49%	27.6
		50%	27.8
		51%	28.4
		52%	28.7
		53%	28.7
		54%	28.9
		55%	29.3
		56%	29.6
		57%	29.6
		58%	30.9
		59%	31.2
		60%	31.4

Reagent Table Temp. 10.1

61%	31.4	81%	40.2
62%	31.8	82%	40.6
63%	32.4	83%	40.6
64%	32.8	84%	41.7
65%	33.7	85%	42.6
66%	33.7	86%	43.2
67%	34.0	87%	43.2
68%	34.6	88%	44.0
69%	34.9	89%	44.2
70%	34.9	90%	44.8
71%	35.4	91%	45.7
72%	36.0	92%	45.8
73%	36.6	93%	46.5
74%	36.7	94%	47.9
75%	37.3	95%	48.6
76%	38.5	96%	48.6
77%	38.9	97%	49.2
78%	39.1	98%	50.2
79%	39.1	99%	51.6
80%	39.5	100%	52.1

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Example 30

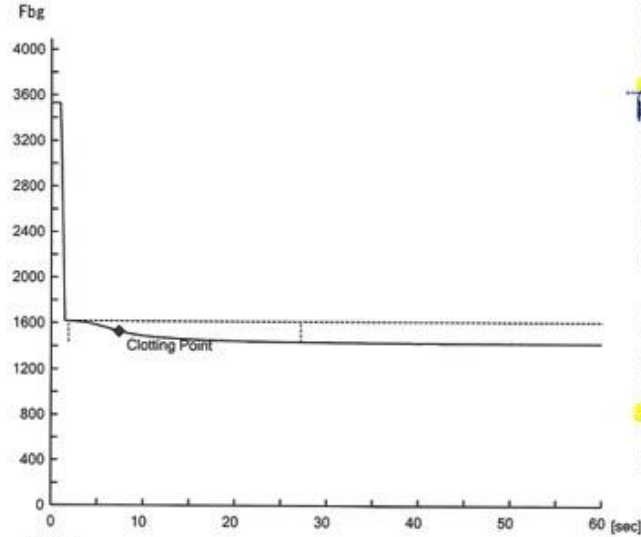
Dilution = 4/1
 No other flag other than dilution
 changed
 Report Fib = 68

CS-5100 25618-3

**** Graph Detail Print ****

admin: administrator

Sample No: 10146302 B Seq: F
 Rack Tube Pos: 000006-01 Re-analysis flag:
 Status: Validate: Performed
 S. Code: Validated on: 2020/06/30 15:20:24
 Analysis Mode: **Micro** Validated by: SYSTEM
 Patient Name:
 Sample Comment:
 Sample Info.: - Meas. Date: 2020/06/30 15:15:23



Result
 Fbg sec d 7.4 sec
 Fbg C **68 mg/dL**

Re-run *by lab* *done* *Report*

Evaluation Info.
 bH_point_time 1.9
 bH 1616
 End_point_time 27.2
 dH 174
 Coag. % 50
 dOD 0.0495

Measurement Info.
 Temperature 37.1
 Channel No. 2
 Management ID 3321
 Dilution **4 / 1**
 Reagent Lot OVB 554672
 Fbg 565060
 Elapsed Time OVB 6
 Fbg 0

Detail
 0000.0000.0000 Dilution Ratio was Changed.

Hem Detection Level
 Ict Detection Level
 Lip Detection Level
 Vol Detection Level
 Calibration Curve ID 1
 QC Performed Date 2020/06/29
 12:24:09

Evaluation Data					
1%	2.3	21%	5.1	41%	6.6
2%	2.7	22%	5.2	42%	6.7
3%	2.9	23%	5.3	43%	6.7
4%	3.1	24%	5.3	44%	6.8
5%	3.4	25%	5.4	45%	6.9
6%	3.6	26%	5.5	46%	7.0
7%	3.8	27%	5.5	47%	7.1
8%	3.8	28%	5.6	48%	7.2
9%	4.0	29%	5.7	49%	7.3
10%	4.1	30%	5.8	50%	7.4
11%	4.2	31%	5.8	51%	7.4
12%	4.3	32%	5.9	52%	7.5
13%	4.4	33%	6.0	53%	7.7
14%	4.5	34%	6.1	54%	7.7
15%	4.6	35%	6.1	55%	7.8
16%	4.6	36%	6.2	56%	7.9
17%	4.7	37%	6.3	57%	8.1
18%	4.8	38%	6.4	58%	8.1
19%	4.9	39%	6.4	59%	8.2
20%	5.0	40%	6.5	60%	8.3

25618/01-18 bui Id40 1/1

Reagent Table Temp. 10.1			
61%	8.5	81%	11.9
62%	8.5	82%	12.3
63%	8.7	83%	12.6
64%	8.8	84%	13.2
65%	9.0	85%	13.4
66%	9.1	86%	13.8
67%	9.2	87%	14.2
68%	9.4	88%	14.7
69%	9.6	89%	14.9
70%	9.7	90%	15.7
71%	9.9	91%	16.2
72%	10.1	92%	17.3
73%	10.3	93%	17.6
74%	10.4	94%	19.0
75%	10.6	95%	19.4
76%	10.8	96%	20.7
77%	10.9	97%	21.2
78%	11.2	98%	23.5
79%	11.5	99%	24.9
80%	11.8	100%	27.3

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