

DXC 800 (AMR) ANALYTICAL MEASUREMENT RANGE

St. Joseph Medical Center Tacoma, WA
 St. Francis Hospital Federal Way, WA

St. Clare Hospital Lakewood, WA
 St. Anthony Hospital Gig Harbor, WA

St. Elizabeth Hospital Enumclaw, WA
 PSC

Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable Diluent	Maximum Manual Dilutions	Special Notes	Upper Limit report as	Lower Limit report as
ACTM	10 -300 µg/mL	10-600µg/mL	Saline	X2 (MAX dilution)		>600 g/mL	<10 µg/mL
ALBm	1.0 – 7.0 g/dL	1.0-14.0g/dL	Saline	X2 (MAX dilution)		>14.0 g/dL	<1.0 g/dL
ALB BCG	1.0 – 6.0 g/dL	1.0-12.0g/dL	Saline	X2 (MAX dilution)		>12.0 g/dL	<1.0 g/dL
ALP	5 – 1650 IU/L Straight (5-1000 Ordac (800- 1650)	5-8250 IU/L	Saline	X5 (MAX dilution)		>8250 IU/L	<5 IU/L
ALT	5 – 2600 IU/L Straight (5-400) Ordac (350- 2600)	5-13000 IU/L	Saline	Dilute "OIR LO" X2 X5 (MAX dilution)		>13000 IU/L	<5 IU/L
AMM	9 – 1000 µmol/L	9 – 1000 µmol/L	N/A	DO NOT DILUTE		>1000 µmol/L	<9 µmol/L
AMY7	5 – 2000 U/L Straight (5–1200) Ordac (1000- 2000)	5-10000 U/L plasma/serum 5-202,000 U/L urine	Saline	X5 (MAX dilution) for plasma/serum X101 (Max dilution) for urine	Start Urine dilution at 1:51	>10000 U/L for plasma / serum >202,000 U/L for urine	<5 U/L plasma, serum and urine
AST	5 – 2600 IU/L Straight (5-400) Ordac (350- 2600)	5-13000 IU/L	Saline	Dilute "OIR LO" X2 X5 (MAX dilution)		>13000 IU/L	<5 IU/L

Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable Diluent	Maximum Manual Dilutions	Special Notes	Upper Limit report as	Lower Limit report as
BUNm	1 - 300mg/dL plasma/serum 10-3000mg/dL urine Straight (1-150) plasma/serum (10-1500) urine Ordac (130- 300) plasma/serum (1300-3000) urine	1 - 300mg/dL plasma/serum 10-30,000 mg/dL urine	Saline	Plasma/serum: DO NOT DILUTE Urine: Must run 1:10 dilution of sample/control Multiply by 10 before reporting result. X10 (MAX dilution of ORDAC result)		>300 mg/dL plasma/serum >30,000 mg/dl urine	<1 mg/dL plasma & serum <10 mg/dL urine
CA	2 - 20 mg/dL plasma/serum 2 - 30 mg/dL urine	2-40 mg/dL plasma and serum 2-150 mg/dL urine	DI water (NERL)	X2 (MAX dilution) Plasma/serum X5 (MAX dilution) urine		>40 mg/dL plasma/serum >150 mg/dL urine	< 2 mg/dL plasma, serum and urine
CAR (TEG)	2-20 µg/mL	2-40 µg/mL	Saline	X2 (MAX dilution)	Reanalyze specimens reported out as SUPPRESSED due to RXN ERROR	>40 µg/mL	<2 µg/mL
CHOL	5 – 1000 mg/dL Straight (5-750) Ordac (600-1000)	5-2000mg/dL	Saline	X2 (MAX dilution)		>2000 mg/dL	<5 mg/dL
CK	5 – 4100 IU/L Straight (5-1200) Ordac (860-4100)	5-20500 IU/L	Saline	X5 (MAX dilution)		>20500 IU/L	< 5 IU/L

Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable	Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable
CL	Serum/plasma /BF 50-200 mmol/L	50-200 mmol/L serum, plasma and BF	N/A	DO NOT DILUTE serum/plasma/BF		>200 mmol/L serum/plasma /BF	<50 mmol/L Serum, plasma and BF
	Urine 15-300 mmol/L	15-1500 mmol/L urine	DI water (NERL)	X5 (MAX dilution) urine		>1500 mmol/L urine	<15 mmol/L urine
CO₂	5 – 50 mmol/L	5-100 mmol/L	DI water (NERL)	X2 (MAX dilution)		>100 mmol/L	<5 mmol/L
CREA	Serum/plasma 0.1 – 25 mg/dL	0.1-50 mg/dL serum and plasma	Saline	X2 (MAX dilution) serum/plasma	3+ lipemia: run ultracentrifuged specimen	>50 mg/dL serum/plasma	< 0.1 mg/dL serum and plasma
	Urine 10 – 400 mg/ dL	10-2000 mg/dL urine		X5 (MAX dilution) urine	Cloudy urines should be centrifuged before testing	>2000 mg/dl Urine >400 mg/dL Urine(for DSUs)	<10 mg/dL urine
CRP	0.5 – 48.8 mg/dL Straight (0.5-20) Ordac (15-48.8)	0.5-97.6 mg/dL	Saline	X2 (MAX dilution)	IF ≥2 Index Lipemia ultracentrifuge and repeat. IF “Results Suppressed, Blank Rate-High” DO NOT DILUTE & reassay. Send to PAML.	>97.6 mg/dL	<0.5 mg/dL
D BIL	0.1 -10.0 mg/dL	0.1-20 mg/dL	Azide free human serum albumin	X2 (MAX dilution)		>20 mg/dL	< 0.1 mg/dL
CYCLO	25 – 450 ng/MI	25 900 ng/mL	Cyclosporine free whole blood	X2(MAX dilution)	Toxic >400 ng/mL	>900 ng/mL	<25 ng/mL

Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable Diluent	Maximum Manual Dilutions	Special Notes	Upper Limit report as	Lower Limit report as
ETOH	5 – 600 mg/dL plasma/serum/ urine	5 – 1200 mg/dL plasma/serum/ urine	ETOH Cal 1	X2 (MAX dilution) for plasma/serum/urine		>1200 mg/dL plasma/serum/ urine	<5 mg/dL Plasma/ serum / urine
FE (IRON)	5 – 500 µg/mL	5 – 500 µg/mL	N/A	DO NOT DILUTE		>500 µg/mL	< 5 µg/mL
GENT	0.5 – 12.0 µg/mL	0.5-24.0 µg/mL	See Manual Dilution Column	>12.0 ug/mL specimens: Dilute with saline X2 (MAX dilution) <0.1 ug/mL specimens: Dilute 1:2 with Multiqua 1 & if value X2 does not match value of known sample, send to PAML , if does match, report <0.5		>24.0 µg/mL	<0.5 µg/mL
GGT	5 – 3000 IU/L Straight (5 – 750) Ordac (550- 3000)	5-15000 IU/L	Saline	X5 (MAX dilution)		>15000 IU/L	< 5 IU/L
GLUC(m)	3-1200 mg/dL Plasma/CSF/BF/ Urine Straight (3-600) Ordac (300- 1200)	3-2400mg/dL	Saline	X2 (MAX dilution)		>2400 mg/dL Plasma/CSF/BF /Urine	<3 mg/dL Plasma/CSF/ BF/Urine
HDL	5 – 135 mg/dL	5-270 mg/dL	Saline	X2 (MAX dilution)		>270 mg/dL	<5 mg/dL


Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable Diluent	Maximum Manual Dilutions	Special Notes	Upper Limit report as	Lower Limit report as
K	1.0-15.0 mmol/L Serum/plasma	1.0-15.0 mmol/L serum and plasma	N/A	DO NOT DILUTE Serum/plasma		>15.0 mmol/L Serum/plasma	< 1.0 mmol/L Serum and plasma
	Urine 2-300 mmol/L	2-600mmol/L	Saline	X2 (MAX dilution) urine		>600 mmol/L urine	< 2 mmol/L urine
LACT	0.3-11.0 mmol/L Plasma/CSF	0.3-22.0 mmol/L	Saline	X2 (MAX dilution)		>22.0 mmol/L	< 0.3 mmol/L
LD	5 – 2700 IU/L Straight (5-750) Ordac (600- 2700)	5 – 13500 IU/L	Saline	X5 (MAX dilution)		>13500 IU/L	< 5 IU/L
LDLD	10-550mg/dL	10-550mg/dL		DO NOT DILUTE		>500 mg/dL	<10 mg/dL
LIP (LIPASE)	10 – 400 U/L Straight (10-200) Ordac (180-400)	10-2000 U/L	patient sample of known low lipase value	Dilute specimens with “out of range high values” with patient sample of known low lipase value and reanalyze. X5 (MAX dilution)		>2000 U/L	<10 U/L
LI LITHIUM	0.1 – 3.0 mmol/L	0.1 - 6.0 mmol/L	Saline	X2 (MAX dilution)	ORDAC NOT TURNED ON. EDTA the only acceptable anticoagulant.	>6.0 mmol/L	<0.1 mmol/L
M-TP	6 – 300 mg/dL CSF	6 – 600 mg/dL CSF	Saline	X2 (MAX dilution) CSF	IF serum protein carryover is suspected, run saline blanks prior to analysis of test specimen.	>600 mg/dL CSF	< 6.0 mg/dL CSF and Urine
	6 – 150 mg/dL Urine	6 – 750mg/dl Urine	Saline	Urine (NO MAX DILUTION)		Urine Dilute to final result	

Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable Diluent	Maximum Manual Dilutions	Special Notes	Upper Limit report as	Lower Limit report as
MA	0.2 - 97mg/dL Ordac (24 – 97) Urine Only	0.2 – 485mg/dL	Saline	(NO MAX DILUTION)		Dilute to final result	<0.2 mg/dL
MG	0.1 – 7.0 mg/dL serum/plasma	0.1 – 14.0 mg/dL	Saline	X2 (MAX dilution)		>14.0 mg/dL	< 0.1 mg/dL
NA	100-200 mmol/L Serum/plasma 10 – 300 mmol/L Urine	100-200 mmol/L serum and plasma 10-1500 mmol/l urine	N/A DI water (NERL)	DO NOT DILUTE serum/plasma X5 (MAX dilution) Urine		>200 mmol/L serum/plasma >1500 mmol/L urine	< 100 mmol/L Serum and plasma <10 mmol/L urine
PHE	5.0 – 80.0 mg/dL	5.0 -160.0 mg/dL	Saline	X2 (MAX dilution)		>160.0 mg/dL	< 5 mg/dL
PHY	2.5 – 40 µg/mL	2.5- 80 µg/mL	Saline	X2 (MAX dilution)	Reanalyze specimen reported out as SUPPRESSED due to RXN ERROR	>80 µg/mL	< 2.5 µg/mL

Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable Diluent	Maximum Manual Dilutions	Special Notes	Upper Limit report as	Lower Limit report as
PHOSm	0.5 – 12.0 mg/dl Serum/plasma	0.5 – 24.0 mg/dL	Saline	X2 (MAX dilution)	Interference may occur with specimens from patients with abnormal immunoglobulin synthesis (e.g. multiple myeloma). Some of these specimens may precipitate out when mixed with reagent, causing "rxn noise" errors. In an event such as this: 1. Dilute specimen 1:2 with saline and reanalyze. 2. If "rxn noise" still occurs, dilute specimen 1:2 with 12% TCA (Trichloroacetic acid) centrifuge and analyze the supernatant.	>24.0 mg/dL	< 0.5 mg/dL
	5 – 140 mg/dL Urine	5 – 1400 mg/dL	Saline	Urine : Must run 1:10 dilution of sample/control. Multiply by 10 before reporting result. X10 (MAX dilution of original 1:10 result.)		>1400mg/dL	< 5 mg/dL
PREALB	2 – 60 mg/dL	2- 120 mg/dL	DI H2O (NERL)	X2 (MAX dilution)		>120 mg/dL	<2 mg/dL
SALY	4-100 mg/dL	4-200 mg/dL	Saline	X2 (MAX dilution)		>200 mg/dL	<4 mg/dL
T BIL	0.1 – 30 mg/dL	0.1 – 60 mg/dL	Azide free human serum albumin	X2 (MAX dilution)		>60mg/dL	< 0.1 mg/dL
TRIG	10 – 1000 mg/dL	10 – 10000 mg/dL	Saline	For Lipemia Index less than 9, dilute X5 (MAX dilution) For Lipemia Index 9 or greater, dilute X10 (MAX dilution)	Lipemia of Index 9 or greater may result in falsely decreased results.	Report >5000 mg/dL (for Lipemic Index less than 9) Report >10,000 mg/dl (for Lipemic Index 9 or greater)	< 10 mg/dL

Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable Diluent	Maximum Manual Dilutions	Special Notes	Upper Limit report as	Lower Limit report as
THEO	2 – 40 µg/mL	2-80 µg/mL	Saline	X2 (MAX dilution)		>80 µg/mL	< 2 µg/mL
TPm	1.0 –12.0mg/dL Serum, plasma or BF Serum/plasma or Body fluids ONLY. NO CSF or Urine	1.0- 24.0 mg/dL	Saline	X2 (MAX dilution)	Specimens with high immunoprotein should be diluted 1:2 and reanalyzed.	>24.0 mg/dL	<1 mg/dL
TRFN	70 – 850 mg/dL	70 – 1700 mg/dL	Saline	X2 (MAX dilution)		>1700 mg/dL	<70 mg/dL
TTCA	0-800 ng/mL Serum/plasma	0-800 ng/mL	N/A	DO NOT DILUTE	Semi-quantitative test Reported as: 0-300 ng/mL 300-500 ng/mL 500-700 ng/ml 700-800 ng/mL >800 ng/mL	>800 ng/mL	Reported as 0-300ng/mL
URIC	0.5 – 21.0 mg/dL Serum/plasma Straight (0.5 – 12.0) Ordac (9.0-21.0) 5 – 120 mg/dL Urine	0.5 – 42 mg/dL 5 – 600 mg/dL	Saline Saline	X2 (MAX dilution) X5 (MAX dilution)	 Need DIL 1 on DXC since analyzer auto dilutes 1:10	>42 mg/dL >600 mg/dL	< 0.5 mg/dL < 5 mg/dL

Test	Analytical Measurement Range (AMR)	Reportable Range	Acceptable Diluent	Maximum Manual Dilutions	Special Notes	Upper Limit report as	Lower Limit report as
VALP	10 – 150 ug/mL	10-300 ug/mL	See Manual Dilution Column	<p>>150 ug/mL specimens: Dilute with saline X2 (MAX dilution)</p> <p><10 ug/mL specimens: Dilute 1:2 with Multiqual 1 & if value X2 does not match value of known sample, send to PAML, if does match, report <10</p>	Reanalyze specimens reported out as SUPPRESSED due to RXN ERROR	>300 ug/mL	<10 ug/mL
VANC	3.5 – 60 ug/mL Straight (3.5 – 40) Ordac (30 – 60)	3.5 – 120 ug/mL	See Manual Dilution Column	<p>>60 ug/mL specimens: Dilute with saline X2 (MAX dilution)</p> <p><0.1 ug/mL specimens: Dilute 1:2 with Synchron 2 & if value X2 does not match value of known sample, send to PAML, if does match, report <3.5</p>		>120 ug/mL	<3.5 ug/mL

DOCUMENT APPROVAL Purpose of Document / Reason for Change:		
3/5/2013 – ETOH unit of measure and decimal point changes. ETOH unit of measure changed from g/dL to mg/dL and with zero decimal points.		
<input type="checkbox"/> No significant change to process in above revision. Per CAP, this revision does not require further Medical Director approval.		
Committee Approval Date	<input type="checkbox"/> Date: <input type="checkbox"/> N/A – revision of department-specific document which is used at only one facility	Medical Director Approval <i>(Electronic Signature)</i>  3/10/13