

Analytical Measuring Ranges
IMMUNOASSAY

ASSAY	UNITS	LOW	HIGH	OnBoard Dilution	Extended Range	Diluent/ Dilution	Maximim Reportable
AFP TUMOR MARKER	ng/mL	2.0	2,000.0	1:10	20,000.0	Multi assay diluent	>180,000*
B12, VITAMIN	pg/mL	146	2,000				>2000
BNP	pg/mL	10	5,000	1:5	25,000		>25000
C PEPTIDE	ng/mL	0.1	30.0	1:10	300.0		>300.0
CA 125	U/mL	1	1,000	1:10	10,000		>10000
CA 15-3	U/mL	0.5	800.0	1:5	4,000.0		>4000.0
CA 19-9	U/mL	2.0	1,200.0	1:10	12,000.0	Multi assay diluent	>1,100,000*
CA 19-9, FLUID	U/mL	2.0	1,200.0	1:10	12,000.0		>1,100,000*
CEA	ng/mL	0.5	1,500.0	1:10	15,000.0		>15,000.0
CEA, Pancreatic	ng/mL	0.5	1,500.0	1:10	15,000.0		>15,000.0
CoV-2 IgG II	AU/mL	50.0	25,000.0	1:2	50,000.0		>50,000.0
CORTISOL	ug/dL	1.0	59.8	1:2	119.6	Multi assay diluent	>1,100.0*
DHEA-S	ug/dL	3	1,500				>1,500
ESTRADIOL	pg/mL	10	1,000	1:5	5,000		>5,000
FERRITIN	ng/mL	1	2,000	1:20	40,000		>40,000
FOLATE	ng/mL	1.6	20.0				>20.0
FREE T3	pg/mL	1.5	20.0				>20.0
FREE T4	ng/dL	0.4	5.0				>5.0
FSH	mIU/mL	0.5	150.0	1:5	750.0		>750.0
Hepatitis B Surface Antibody	mIU/mL	<8.00	1,000.0				>1,000.0
HBSAG Conf	%					HBSAG Conf Diluent	Manual 1:500 Manual 1:20,000
HOMOCYSTEINE	umol/L	1	50				>50
INSULIN	uU/mL	1	300	1:2	600		>600
LH	mIU/mL	0.1	250.0	1:4	1,000.0		>1,000.0
MYOGLOBIN	ng/mL	1.0	1,200.0	1:10	12,000.0		>12,000.0
PROCALCITONIN	ng/mL	0.02	100.00				>100.00
PROGESTERONE	ng/mL	0.1	40.0	1:10	400.0		>400.0
PROLACTIN	ng/mL	0.6	200.0	1:10	2,000.0		>2,000.0
PSA, FREE	ng/mL	0.02	30.00				>30.00
PSA, TOTAL	ng/mL	0.10	100.00	1:10	1,000.00		>10,00.00
PTH	pg/mL	4	2,500				>2,500
SHBG	nmol/L	2	250	1:5	1,250		>1,250
TESTOSTERONE	ng/dL	5	1,009.4	1:4	1,500		>1,500**
TOTAL BETA HCG	mIU/mL	1	1,5000	1:15	22,5000	Multi Assay Manual Diluent x30 then x75, if needed	>1,125,000*
TROPONIN-I	ng/mL	0.01	50.00				>50.00
TSH	uIU/mL	0.01	100.00	1:5	500.00		>500.00
VITAMIN D, 25-OH Total	ng/mL	4	155				>155

*Requests for CORT, AFP, hCG, and CA199 are diluted to endpoint. Results above the stated maximum reportable are diluted in duplicate before reporting. Dilutions should agree within 10%

** Verify dilution condition is STD before reporting Testo as "less than"

Dilution Guide		
Dilution - Program at the instrument	DILUENT Volume	SAMPLE Volume
X2	100uL	100uL
X5	400uL	100uL
X10	900uL	100uL
X20	950uL	50uL
X30	580uL	20uL
X75	740uL	10uL
X100	990uL	10uL

For very high samples, a manual serial dilution may be required.			
Tube	Amount of Diluent	Amount of sample	dilution
1	450 uL	50 uL of straight sample	X10
2	450 uL	50 uL from Tube 1	X100
3	450 uL	50 uL from Tube 2	X1,000
4	450 uL	50 uL from Tube 3	X10,000
5	450 uL	50 uL from Tube 4	X100,000