

PRODUCT CODE: ML-300 LOT# MLAC1F2

INTENDED USE The Multi-ligand Controls are intended for use as an assayed quality control material to monitor the consistency of performance of allocatory test procedures associated with determination and monitoring of the clinical status. This product is a human-serum based, hophilized control, stabilized with preservatives and can be used with all EUSA and CLIM methods.

# SUMMARY AND EXPLANATION

The use of quality control material to assist in the assessment of precision in the clinical laboratory is an integral part of laboratory practices. Controls that contain varied levels of analytes are necessary to insure precision and accuracy in immunoassay systems.

REAGENTS Monobind's Multi-ligand Controls are intended to be used in the exact manner as patient samples. The control is packaged as 6 vials of 3.0 ml, dried. The analyte activities are adjusted to concentrations in the low, middle and high range in order to monitor the efficacy of the procedure in use.

INSTRUCTIONS FOR USE 1) Bring the vials to room temperature before use. 2) Carefully uncover and remove cap. 3) Add three (3) ml of distilled or deionized water to each vial. Close the cap tightly and let the contents mix thoroughly for 30 minutes 4) Aliquot the materials in 0.5 ml aliquots in cryo vials and store at -20°C.

STORAGE, STABILITY AND DISPOSAL This product will be stable until the expiration date when stored unopened at 2 to 6°C. Once the control is reconstituted, all analytes will be stable for 7 days when stored tightly capped at 2 to 6°C with the following exceptions: 1) C-Peptide should be assayed immediately after reconstitution, and 2) Folate and Insulin will be stable for 1 days. To avid on chamination, it is recommended labs alique required quantities into vials before each

After reconstituting, controls should be lightly capped and returned to refrigerator 2 to 8° C as soon as practical after usage. [Long term room temperature storage is not supported]. After reconstituting, controls should be tightly capped and inforcem whith 2-boxics. Tooch taveed, do not refreeze the control, discard transming material is recommended that customers aliquid control into separate containers before freezing to allow for usage on different days. Outladed material should be discarded as to bibbarcardous component.

STORAGE	STABILITY	TEMPERATURE
Lyophilized, Unopened	Three (3) years	< 8°C
Reconstituted, Opened	Seven (7) days	2 - 8°C
Reconstituted Opened	Ninoty (00) down	< 10°C

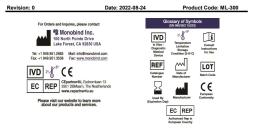
EXPECTED RANGE OF VALUES The mean values printed in this insert were derived from replicate analyses and are specific for this lot of product. The tests listed were performed by Wonchind QA using representative lots of this product, as well as those of Monobind's AccuBind® ELISA and AccuLite® CLA reagents.

Individual laboratory means should fall within the corresponding acceptable range, however laboratory means may vary from the listed values during the life of this control. Therefore, each laboratory should establish its own means and acceptable ranges for the product used, using Monchind's assignment only as guide. A trend tog should be maintained for blach to blach consistency of the test. Variations over time and between laboratories may be caused by a differences in laboratory personnel, b) improre technique, c) instrumentation and reagents, d) improzer dilutions from the stated manufacturer's procedure, and/ or e) modifications in the manufacturer's test procedure.

nobind.com/site/qc-documents.html for any updated insert inform Refer to http://www.mo

## WARNING AND PRECAUTIONS

WARNING AND PRECAUTIONS POR IN VITRO DIAGNOSTIC USE All products that contain human serum have been found to be non-reactive for HIV 182, HIV-48, HBsAg, HCV and RPR by EDA required tests. Since no known test can offer complete assurance that infectious agents are absent, all human serum products should be handled as potentially hazardous and capable of transmitting disease. Good laboratory procedures for handling hood product scan be found in the Center for Disease. Condi-Institute of Health, "Biosafety in Microbiological and Biomedical Laboratories," 2nd Edition, 1988, HHS Publication No. (DCD) 88-836.





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STORAGE	STABILITY	TEMPERATURE	
Lyophilized, Unopened	Three (3) years	< 8°C	
Reconstituted, Opened	Seven (7) days	2 - 8°C	
Reconstituted. Opened	Ninety (90) days	< -10°C	

EXPECTED RANGE OF VALUES The mean values primed in this insert were derived from replicate analyses and are specific for this lot of product. The tests listed were performed by Whonchin QA using representative lots of this product, as well as those of Monobind's AccuBind® ELISA and AccuBie® CLIA reagents.

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Revision: 0	Date: 2022-08-24	Date: 2022-08-24		Product Code: ML-30		
For Orders and Inqu	ires, please contact	Glo	essary of Symbolic (EN 980/ISO 15223)	ols		
100 North Lake For Tel: +1 949.951.2665	h Pointe Drive est, CA 92630 USA Mail: info@monobind.com	IVD In Vitro - Diegnostic Medical Device	2% f Temperature Limitation Storage Condition (2-8°C)	Consult Instructions for Use		
Fax: +1 949.951.3539	Fax: www.monobind.com	REF Catalogue Number	Date of Manufacturer	LOT Batch Code		
EC REP 3951 www Please visit our we	artner4U, Esdoornlaan 13 DBMaarn, The Neatherlands .cepartner4u.eu bsite to learn more cts and services.	Used By (Expiration Day)	Manufacturer	C E European Conformity		
			EC REP			

A B C				
Analyte	Range	Range	Range	Method
IgE in IU/ml	13.42 ± 4.43	196.26 ± 64.77	132.62 ± 43.76	MB ACCUBIND ELISA
	13.53 ± 4.47	196.20 ± 64.75	138.53 ± 45.72	MB ACCULITE CLIA
emia Ferritin in no/ml	33.54 ± 11.07	71.19 ± 23.49	340.30 ± 112.30	MB ACCUBIND ELISA
Vitamin B12 in pg/ml	30.30 ± 10.0	68.35 ± 22.56	355.06 ± 117.17	MB ACCULITE CLIA
	331.30 ± 109.33	515.13 ± 169.99	861.60 ± 284.33	MB ACCUBIND ELISA
Folate in ng/ml	326.0 ± 107.58	558.72 ± 184.38	910.86 ± 300.58	MB ACCULITE CLIA
	2.44 ± 0.81	6.25± 2.06	14.37 ± 4.74	MB ACCUBIND ELISA
mia Vast	2.86 ± 0.94	6.27± 2.07	14.53 ± 4.79	MB ACCULITE CLIA
Vitamin B12) in pg/ml	349.12 ± 115.21 406.46 ± 134.13	508.39 ± 167.77 590.53 ± 194.87	973.12± 321.13	MB ACCUBIND ELISA MB ACCULITE CLIA
(Folate) in ng/ml	2.74 ± 0.90	6.39± 2.11	13.41 ± 4.43	MB ACCUBIND ELISA
Bone Metabolism	2.61 ± 0.99	6.51± 2.15	15.45 ± 5.10	MB ACCULITE CLIA
Vit D Direct in ng/ml	22.99 ± 7.59 19.85 ± 6.55	45.36± 14.97 43.75± 14.44	103.48 ± 34.15 110.75 ± 36.55	MB ACCUBIND ELISA
cer Markers AFP in ng/ml	23.73 ± 7.83	95.87 ± 31.64	153.66 ± 50.71	MB ACCUBIND ELISA
CEA in ng/ml	24.30 ± 8.02	97.60 ± 32.21	156.60 ± 51.68	MB ACCULITE CLIA
	3.92 ± 1.29	19.09 ± 6.30	37.43 ± 12.35	MB ACCUBIND ELISA
EA Next Generation in	3.68 ± 1.21	17.97 ± 5.93	34.17 ± 11.28	MB ACCULITE CLIA
	4.07 ± 1.34	22.54 ± 7.44	43.15 ± 14.24	MB ACCUBIND ELISA
ng/ml	3.71 ± 1.22	20.69± 6.83	42.12 ± 13.90	MB ACCULITE CLIA
fPSA in ng/ml	1.11 ± 0.37	3.22±1.06	>11	MB ACCUBIND ELISA
tPSA-XS in ng/ml	1.18 ± 0.39 1.92 ± 0.63	3.24 ± 1.07 5.27 ± 1.74	>11 19.47 ± 6.42	MB ACCULITE CLIA MB ACCUBIND ELISA
tPSA in ng/ml	2.25 ± 0.74	5.50 ± 1.82	18.25 ± 6.02	MB ACCULITE CLIA
	2.30 ± 0.76	5.86 ± 1.93	20.58 ± 6.79	MB ACCUBIND ELISA
	2.55 ± 0.84	6.05 ± 2	21.75 ± 7.18	MB ACCULITE CLIA
icer Markers Vast	3.87±1.28	18.12 ± 5.98	34.81±11.49	MB ACCUBIND ELISA
(CEA) in ng/ml	3.45 ± 1.14	17.95 ± 5.91	33.45 ± 11.04	MB ACCULITE CLIA
	22.87 ± 7.55	90.89 ± 29.99	142.80 ± 47.12	MB ACCUBIND ELISA
(AFP) in ng/ml	20.94 ± 8.09	90.13±29.74	147.03± 48.52	MB ACCULITE CLIA
(tPSA) in ng/ml	1.88 ± 0.62	5.70±1.88	21.13 ± 6.97	MB ACCUBIND ELISA
diac Markers	1.93 ± 0.75	5.47± 1.81	22.72 ± 7.50	MB ACCULITE CLIA
Dig in ng/ml	0.32 ± 0.11	1.33± 0.44	2.68 ± 0.88	MB ACCUBIND ELISA
	0.36 ± 0.12	1.40 ± 0.46	2.70 ± 0.89	MB ACCULITE CLIA
betes C-Peptide in ng/ml	0.43 ± 0.14	2.11±0.70	4.90 ± 1.62	MB ACCUBIND ELISA
Insulin in µIU/mI	0.45 ± 0.15	2.07 ± 0.68	4.89 ± 1.61	MB ACCULITE CLIA
	14.46 ± 4.77	42.62 ± 14.06	138.13 ± 45.58	MB ACCUBIND ELISA
	14.10 ± 4.65	43.60 ± 14.39	142.70 ± 47.09	MB ACCULITE CLIA
Rapid Insulin in µIU/mI	14.10 ± 4.65	43.60 ± 14.39	142.70 ± 47.09	MB ACCULITE CLIA
tility	14.54 ± 4.80	43.03 ± 14.20	135.39 ± 44.68	MB ACCUBIND ELISA
FSH in mIU/mI	4.30 ± 1.42	22.48 ± 7.42	38.36 ± 12.66	MB ACCUBIND ELISA
	4.13 ± 1.36	22.02 ± 7.26	39.82 ± 13.14	MB ACCULITE CLIA
hCG in mIU/mI	6.16 ± 2.03	26.98 ± 8.90	136.94 ± 45.19	MB ACCUBIND ELISA
	5.75± 1.90	26.65 ± 8.79	140.0 ± 46.20	MB ACCULITE CLIA
hCG-XR in mIU/mI	3.98 ± 1.31	29.10 ± 9.60	110.26± 36.39	MB ACCUBIND ELISA
	3.30 ± 1.09	25.15 ± 8.30	98.73 ± 32.58	MB ACCULITE CLIA
LH in mIU/mI	4.93 ± 1.63	25.72 ± 8.49	49.85 ± 16.45	MB ACCUBIND ELISA
	4.70 ± 1.55	25.33 ± 8.36	53.83 ± 17.76	MB ACCULITE CLIA
PRL in ng/ml	3.57 ± 1.18	15.68 ± 5.51	28.44 ±9.38	MB ACCUBIND ELISA
	3.70 ± 1.22	15.20 ±5.02	27.80 ± 9.17	MB ACCULITE CLIA
PRL-seq in ng/ml Rapid HCG in mIU/ml	3.30 ± 1.09 3.88 ± 1.37	11.90 ± 3.93 10.90 ± 3.60 30.01 ± 9.90	16.70 ± 5.51 16.08 ±5.30	MB ACCUBIND ELISA MB ACCULITE CLIA
tility Vast	6.40 ± 2.11 3.85± 1.27	18.78 ± 6.20	145.10 ±47.88	MB ACCUBIND ELISA MB ACCUBIND ELISA
(FSH) in mIU/mI	3.85 ± 1.27 3.85± 1.25	16.75 ± 5.53 19.39± 6.40	33.90 ± 11.19 37.05 ± 12.22	MB ACCULITE CLIA MB ACCULITE CLIA MB ACCUBIND ELISA
(LH) in mIU/mI	3.70± 1.22	17.25± 5.69	37.70± 12.44	MB ACCULITE CLIA
(hCG) in mIU/mI	6.19±2.04	29.26 ± 9.65	121.88±40.22	MB ACCUBIND ELISA
le Screen VAST	7.30 ± 2.84	26.22 ± 8.65	109.41 ± 36.10	MB ACCULITE CLIA
(AFP) in ng/ml	24.57 ± 8.11	91.33 ± 30.14	158.30 ± 52.24	MB ACCUBIND ELISA
	25.88 ± 8.54	96.77 ± 31.93	162.88 ± 53.75	MB ACCULITE CLIA
(uE3) in ng/ml	0.93 ± 0.39	2.51 ± 0.83	6.78 ± 2.24	MB ACCUBIND ELISA
	0.95 ± 0.31	2.48 ± 0.82	5.89 ± 1.94	MB ACCULITE CLIA
(hCG) in mIU/mI	5.23 ± 1.72	27.26 ± 8.99	133.70 ± 44.12	MB ACCUBIND ELISA
wth Deficiency	4.93 ± 1.63	26.73 ± 8.82	132.87 ± 43.85	MB ACCULITE CLIA
hGH in µIU//ml	8.28 ± 2.73	25.50 ± 8.41	55.93 ± 19.84	MB ACCUBIND ELISA
	7.55 ± 2.49	22.95 ± 7.57	49.55 ± 16.35	MB ACCULITE CLIA
roids	2.85 ± 0.94	15.26 ± 5.04	49.05 ± 10.35	MB ACCUBIND ELISA
Cortisol in µg/dl	2.99 ± 0.99	14.48± 4.78	28.05 ± 9.26	MB ACCULITE CLIA
DHEA-S in µg/ml	0.36 ± 0.14	1.54 ± 0.51	4.64 ± 1.53	MB ACCUBIND ELISA
DHEA in ng/ml	0.40 ± 0.13	1.44 ± 0.48	4.41 ± 1.46	MB ACCULITE CLIA
	0.88 ± 0.33	7.67± 2.53	16.94 ± 5.59	MB ACCUBIND ELISA
E2 in pa/ml	0.94 ± 0.54	7.87± 2.60	19.14 ± 6.32	MB ACCULITE CLIA
	51.30 ± 16.93	271.27 ± 89.52	306.39 ± 101.11	MB ACCUBIND ELISA
Progesterone in ng/ml	51.10 ± 16.86	266.17±87.84	347.69 ± 118.50	MB ACCULITE CLIA
	1.21 ± 0.40	8.03±2.65	22.95 ± 7.57	MB ACCUBIND ELISA
17-OHP in ng/ml	1.26 ± 0.41	9.26 ± 3.05	25.55 ± 8.43	MB ACCULITE CLIA
	0.58± 0.19	2.22 ± 0.73	5.46 ± 1.80	MB ACCUBIND ELISA
17-OHP-SI in ng/ml	0.63± 0.21	2.36±0.78	6.07 ± 2	MB ACCULITE CLIA
	0.30±0.10	1.26±0.41	2.70 ± 0.89	MB ACCUBIND ELISA
Festosterone in ng/ml	0.30 ± 0.10	1.17 ± 0.39	2.83 ± 0.94	MB ACCULITE CLIA
	0.29 ± 0.10	1.11 ± 0.37	6.71 ± 2.21	MB ACCUBIND ELISA
	0.40 ± 0.13	1.25± 0.41	7.28 ± 2.40	MB ACCULITE CLIA
uE3 in ng/ml	0.40 ± 0.13	1.25± 0.41	7.28 ± 2.40	MB ACCULITE CLIA
	1.05 ± 0.38	2.44 ± 0.80	5.76 ± 2.26	MB ACCUBIND ELISA
	1.22 ± 0.40	2.89 ± 1.07	7.78 ± 2.57	MB ACCULITE CLIA
E1 in ng/ml	41.10 ± 17.18	215.34 ± 71.06	799.55 ± 263.85	MB ACCUBIND ELISA
ANST in ng/ml	0.3 ± 0.11	1.11 ± 0.37	10.70 ± 3.53	MB ACCUBIND ELISA
ANST in ng/ml	0.35 ± 0.12	1.19 ± 0.39	12.92 ± 4.26	MB ACCULITE CLIA
Aldosterone in ng/ml	47.32 ± 15.62	340.36 ± 112.32	958.90 ± 316.44	MB ACCUBIND ELISA
Free Testosterone	41.60 ± 13.73	326.40 ± 107.71	960.13 ± 316.84	MB ACCULITE CLIA
	1.11 ± 0.48	2.81 ± 1.13	25.10 ± 10.32	MB ACCUBIND ELISA
0-60pg/ml calibration) /roid	1.25 ± 0.47	3.01±0.99	27.86 ± 9.19	MB ACCULITE CLIA
	0.53 ± 0.17	1.41 ± 0.47 1.35 ± 0.44	3.78 ± 1.25 3.70 ± 1.22 16.80 ± 5.54	MB ACCUBIND ELISA MB ACCULITE CLIA
T3 in ng/ml	0.52 ± 0.17			
T4 in µg/dl	3.2 ± 1.05 2.95 ± 0.97	6.83 ± 2.25 6.77 ± 2.23	15.40 ± 5.08	MB ACCUBIND ELISA MB ACCULITE CLIA MB ACCUBIND ELISA
T4 in µg/dl TSH in µlU/ml	3.2 ± 1.05 2.95 ± 0.97 0.62 ± 0.20 0.50 ± 0.17	6.83 ± 2.25 6.77 ± 2.23 5.02 + 1.66 4.60 ± 1.52	15.40 ± 5.08 33.82 ± 11.16 33.20 ± 10.95	MB ACCULITE CLIA MB ACCUBIND ELISA MB ACCULITE CLIA
T4 in μg/dl TSH in μlU/ml fT3 in pg/ml	3.2 ± 1.05 2.95 ± 0.97 0.62 ± 0.20	6.83 ± 2.25 6.77 ± 2.23 5.02 + 1.66	15.40 ± 5.08 33.82 ± 11.16	MB ACCULITE CLIA MB ACCUBIND ELISA MB ACCULITE CLIA MB ACCUBIND ELISA MB ACCULITE CLIA
T4 in µg/dl TSH in µlU/ml fT3 in pg/ml fT4 in ng/dl	3.2 ± 1.05 2.95 ± 0.97 0.62 ± 0.20 0.50 ± 0.17 2.09 ± 0.69 1.86 ± 0.61	6.83 ± 2.25 6.77 ± 2.23 5.02 + 1.66 4.60 ± 1.52 3.51 ± 1.16 3.43 ± 1.13	15.40 ± 5.08 33.82 ± 11.16 33.20 ± 10.95 7.06 ± 2.33 7.59 ± 2.50	MB ACCULITE CLIA MB ACCULITE CLIA MB ACCULITE CLIA MB ACCULITE CLIA MB ACCULITE CLIA MB ACCULITE CLIA
T4 in µg/dl TSH in µlU/ml fT3 in pg/ml fT4 in ng/dl T3-Uptake in %U	$\begin{array}{c} 3.2 \pm 1.05 \\ \hline 2.95 \pm 0.97 \\ \hline 0.62 \pm 0.20 \\ \hline 0.50 \pm 0.17 \\ \hline 2.09 \pm 0.69 \\ \hline 1.86 \pm 0.61 \\ \hline 0.84 \pm 0.28 \\ \hline 0.84 \pm 0.28 \end{array}$	6.83±225 6.77±223 5.02±1.86 4.60±1.52 3.51±1.16 3.43±1.13 1.42±0.47 1.36±0.45	15.40 ± 5.08           33.82 ± 11.16           33.20 ± 10.95           7.06 ± 2.33           7.59 ± 2.50           3.39 ± 1.12           3.52± 1.16	MB ACCULITE CLIA MB ACCUBIND ELISA MB ACCULITE CLIA MB ACCUBIND ELISA MB ACCULITE CLIA MB ACCUBIND ELISA
T4 in µg/dl TSH in µlU/ml fT3 in pg/ml fT4 in ng/dl T3-Uptake in %U Rapid TSH in µlU/ml TSH-RC in µlU/ml	$\begin{array}{c} 3.2\pm1.06\\ 2.95\pm0.97\\ 0.62\pm0.20\\ 0.59\pm0.17\\ 2.09\pm0.69\\ 1.86\pm0.61\\ 0.84\pm0.28\\ 0.84\pm0.28\\ 31.40\pm1.93\\ 32.51\pm1.90\end{array}$	$\begin{array}{c} 6.83 \pm 2.25 \\ 6.77 \pm 2.23 \\ 5.02 + 1.66 \\ 4.60 \pm 1.52 \\ 3.51 \pm 1.16 \\ 3.43 \pm 1.13 \\ 1.42 \pm 0.47 \\ 1.36 \pm 0.45 \\ 30.17 \pm 1.82 \\ 30.44 \pm 1.83 \end{array}$	$\begin{array}{c} 15.40\pm5.08\\ \hline 33.82\pm11.16\\ \hline 33.20\pm10.95\\ \hline 7.06\pm2.33\\ \hline 7.59\pm2.50\\ \hline 3.39\pm1.12\\ \hline 3.52\pm1.16\\ \hline 45.61\pm1.80\\ \hline 44.22\pm1.79\\ \hline \end{array}$	MB ACCULITE CLA MB ACCUBIND ELISA MB ACCULITE CLA MB ACCULITE CLA MB ACCULITE CLA MB ACCULITE CLA MB ACCULITE CLA MB ACCULITE CLA MB ACCULITE CLA
T4 in µg/dl TSH in µlU/ml fT3 in pg/ml fT4 in ng/dl T3-Uptake in %U Rapid TSH in µlU/ml	$\begin{array}{c} 3.2 \pm 1.05\\ 2.95 \pm 0.97\\ 0.62 \pm 0.20\\ 0.50 \pm 0.17\\ 2.09 \pm 0.69\\ 0.84 \pm 0.28\\ 0.84 \pm 0.28\\ 0.84 \pm 0.28\\ 31.40 \pm 1.93\\ 32.51 \pm 1.90\\ 0.63 \pm 0.21\\ 0.51 \pm 0.17\\ 0.63 \pm 0.21\\ 0.57 \pm 0.19\end{array}$	$\begin{array}{c} 6.83\pm2.25\\ 6.77\pm2.23\\ 5.02\pm1.66\\ 4.60\pm1.52\\ 3.51\pm1.16\\ 3.43\pm1.13\\ 1.42\pm0.47\\ 1.36\pm0.45\\ 30.17\pm1.82\\ 30.04\pm1.83\\ 5.23\pm1.72\\ 5.20\pm1.74\\ 5\pm1.65\\ \hline\end{array}$	15.40±5.08           33.82±1116           33.20±10.95           7.06±2.33           7.59±2.50           3.52±116           3.52±116           45.61±180           44.22±1.79           31.54±10.41           32.63±10.84           31.71±10.47           32.66±10.78	MB ACCURTE CLIA MB ACCURTE CLIA
T4 in µg/dl TSH in µlU/ml IT3 in pg/ml IT4 in ng/dl T3-Uptake in %U Rapid TSH in µlU/ml TSH-RC in µlU/ml rrold VAST	$\begin{array}{c} 3.2 \pm 1.05\\ 2.95 \pm 0.97\\ 0.62 \pm 0.20\\ 0.50 \pm 0.17\\ 2.09 \pm 0.69\\ 0.84 \pm 0.28\\ 0.31 \pm 0.17\\ 0.63 \pm 0.21\\ 0.51 \pm 0.17\\ 0.63 \pm 0.21\\ 0.57 \pm 0.19\\ 0.55 \pm 0.18\\ 0.55 \pm 0.18\\$	$\begin{array}{c} 6.83\pm2.25\\ 6.77\pm2.23\\ 5.02\pm1.66\\ 4.60\pm1.52\\ 3.85\pm1.13\\ 1.42\pm0.47\\ 1.36\pm0.45\\ 3.43\pm1.13\\ 1.42\pm0.47\\ 1.36\pm0.45\\ 3.0.17\pm1.82\\ 3.0.44\pm1.83\\ 5.23\pm1.72\\ 5.26\pm1.74\\ 5\pm1.65\\ 4.84\pm1.60\\ 1.37\pm0.45\end{array}$	15.40±5.08           33.82±1116           33.20±10.95           7.06±2.33           7.95±2.50           3.39±1.12           3.39±1.12           3.39±1.12           3.52±1.16           44.22±1.79           31.54±1.041           32.68±1.044           31.71±1.047           32.66±1.078           30.79±1.018           30.79±1.02	MB ACCURTE CLIA MB ACCURTE CLIA
T4 in µgidl T5H in µU/ml fT3 in pgiml fT4 in ngidl T3-Uptake in %U T3-Uptake i	$\begin{array}{c} 3.2\pm1.05\\ 2.85\pm0.67\\ 0.62\pm0.20\\ 0.50\pm0.17\\ 2.00\pm0.69\\ 1.86\pm0.61\\ 0.84\pm0.28\\ 0.84\pm0.28\\ 0.84\pm0.28\\ 1.60\pm1.60\\ 0.63\pm0.21\\ 0.55\pm0.18\\ 0.55\pm0.18\\ 0.55\pm0.18\\ 0.55\pm0.18\\ 0.33\pm0.21\\ 0.55\pm0.18\\ 0.35\pm0.18\\ 0.35\pm$	$\begin{array}{c} 6.83 \pm 2.25\\ 6.77 \pm 2.23\\ 5.02 + 1.86\\ 4.00 \pm 1.52\\ 3.51 \pm 1.16\\ 3.43 \pm 1.13\\ 1.42 \pm 0.47\\ 1.38 \pm 0.45\\ 30.17 \pm 1.82\\ 30.44 \pm 1.83\\ 5.23 \pm 1.72\\ 5.26 \pm 1.74\\ 5 \pm 1.05\\ 5 \pm 1.05\\ 1.37 \pm 0.45\\ 1.37 \pm 0.49\\ 1.$	$\begin{array}{c} 16.40 \pm 5.08 \\ 33.82 \pm 11.16 \\ 33.20 \pm 10.95 \\ 7.06 \pm 2.33 \\ 7.59 \pm 2.50 \\ 3.39 \pm 1.12 \\ 3.52 \pm 1.60 \\ 4.52 \pm 1.79 \\ 4.52 \pm 1.79 \\ 31.54 \pm 10.84 \\ 31.71 \pm 10.41 \\ 32.85 \pm 10.84 \\ 31.71 \pm 10.47 \\ 32.65 \pm 10.47 \\ 32.4$	He ACCURTE CLA ME ACCURTE CLA
T4 in µg/dl T5H in µlU/ml fT3 in pg/ml fT4 in ng/dl T3-Uptake in %U Rapid T8H in µlU/ml T5H-RC in µlU/ml T5H-RC in µlU/ml Sitep T3 in ng/ml Sitep T4 in µg/dl D Thyroid VAST	$\begin{array}{c} 3.2\pm1.05\\ 2.95\pm0.07\\ 0.62\pm0.20\\ 0.50\pm0.17\\ 2.00\pm0.20\\ 0.50\pm0.17\\ 2.00\pm0.69\\ 1.86\pm0.61\\ 0.84\pm0.28\\ 0.84\pm0.28\\ 0.84\pm0.28\\ 1.00\pm0.21\\ 0.63\pm0.21\\ 0.63\pm0.21\\ 0.55\pm0.18\\ 0.65\pm0.18\\ 0.65\pm$	$\begin{array}{c} 6.83 \pm 2.25 \\ 6.77 \pm 2.23 \\ 5.02 \pm 1.66 \\ 4.00 \pm 1.52 \\ 3.51 \pm 1.16 \\ 3.43 \pm 1.13 \\ 1.42 \pm 0.47 \\ 1.38 \pm 0.45 \\ 3.07 \pm 1.8 \\ 5.23 \pm 1.72 \\ 5.20 \pm 1.74 \\ 5.23 \pm 1.72 \\ 5.20 \pm 1.74 \\ 5.23 \pm 1.72 \\ 5.20 \pm 1.74 \\ 5.23 \pm 1.72 \\ 5.24 \pm 1.60 \\ 1.37 \pm 0.45 \\ 1.37 \pm 0.4$	$\begin{array}{c} 16.00 s.5.08\\ 33.82\pm 11.16\\ 33.20\pm 10.95\\ 7.09\pm 2.33\\ 7.59\pm 2.50\\ 3.52\pm 11.6\\ 45.61\pm 1.80\\ 44.22\pm 1.79\\ 31.54\pm 10.41\\ 32.54\pm 10.41\\ 32.54\pm 10.44\\ 31.71\pm 10.47\\ 32.66\pm 10.78\\ 30.79\pm 10.16\\ 3.09\pm 1.02\\ 33.8\pm 1.12\\ 15.62\pm 5.15\\ 14.52\pm 5.04\\ \end{array}$	MB ACCURTE CLIA ME ACCURTO CLIA MB ACCURTO CLIA
T4 in µg/d1 TSH in µlU/m1 fT3 in pg/m1 fT4 in ng/m1 T3-Uptake in %U Rapid TSH µlU/m1 TSH-RC in µlU/m1 TSH-RC in µlU/m1 (TSH) in µlU/m1 Strep T3 in ng/m1 Strep T4 in µg/d1	$\begin{array}{c} 3.2\pm1.05\\ 2.85\pm0.67\\ 0.62\pm0.20\\ 0.50\pm0.17\\ 2.00\pm0.69\\ 1.86\pm0.61\\ 0.84\pm0.28\\ 0.84\pm0.28\\ 0.84\pm0.28\\ 1.60\pm1.60\\ 0.63\pm0.21\\ 0.55\pm0.18\\ 0.55\pm0.18\\ 0.55\pm0.18\\ 0.55\pm0.18\\ 0.33\pm0.21\\ 0.55\pm0.18\\ 0.35\pm0.18\\ 0.35\pm$	$\begin{array}{c} 6.83 \pm 2.25\\ 6.77 \pm 2.23\\ 5.02 + 1.86\\ 4.00 \pm 1.52\\ 3.51 \pm 1.16\\ 3.43 \pm 1.13\\ 1.42 \pm 0.47\\ 1.38 \pm 0.45\\ 30.17 \pm 1.82\\ 30.44 \pm 1.83\\ 5.23 \pm 1.72\\ 5.26 \pm 1.74\\ 5 \pm 1.05\\ 5 \pm 1.05\\ 1.37 \pm 0.45\\ 1.37 \pm 0.49\\ 1.$	$\begin{array}{c} 16.40 \pm 5.08 \\ 33.82 \pm 11.16 \\ 33.20 \pm 10.95 \\ 7.06 \pm 2.33 \\ 7.59 \pm 2.50 \\ 3.39 \pm 1.12 \\ 3.52 \pm 1.60 \\ 4.52 \pm 1.79 \\ 4.52 \pm 1.79 \\ 31.54 \pm 10.84 \\ 31.71 \pm 10.41 \\ 32.85 \pm 10.84 \\ 31.71 \pm 10.47 \\ 32.65 \pm 10.47 \\ 32.4$	He ACCURTE CLA ME ACCURTE CLA

Analyte	A Range	B Range	C Range	Method
ergy laE in IU/ml	13.42 ± 4.43	196.26 ± 64.77	132.62 ± 43.76	MB ACCUBIND ELISA
emia	13.53 ± 4.47	196.20 ± 64.75	138.53 ± 45.72	MB ACCULITE CLIA
Ferritin in ng/ml	33.54 ± 11.07 30.30 ± 10.0	71.19 ± 23.49 68.35 ± 22.56	340.30 ± 112.30 355.06 ± 117.17	MB ACCUBIND ELISA MB ACCULITE CLIA
Vitamin B12 in pg/ml	331.30 ± 109.33 326.0 ± 107.58	515.13 ± 169.99 558.72 ± 184.38	861.60 ± 284.33 910.86 ± 300.58	MB ACCUBIND ELISA MB ACCULITE CLIA
Folate in ng/ml emia Vast	2.44 ± 0.81 2.86 ± 0.94	6.25± 2.06 6.27± 2.07	14.37 ± 4.74 14.53 ± 4.79	MB ACCUBIND ELISA MB ACCULITE CLIA
(Vitamin B12) in pg/ml	349.12 ± 115.21 406.46 ± 134.13	508.39 ± 167.77 590.53 ± 194.87	857.87±283.10 973.12±321.13	MB ACCUBIND ELISA MB ACCULITE CLIA
(Folate) in ng/ml	400.46 ± 134.13 2.74 ± 0.90 2.61 ± 0.99	6.39± 2.11 6.51± 2.15	9/3.12± 321.13 13.41 ± 4.43 15.45 ± 5.10	MB ACCUBIND ELISA MB ACCUBIND ELISA MB ACCULITE CLIA
Bone Metabolism	22.99 ± 7.59	45.36± 14.97	103.48 ± 34.15	MB ACCUBIND ELISA
Vit D Direct in ng/ml	19.85 ± 6.55	43.75± 14.44	110.75 ± 36.55	MB ACCULITE CLIA
AFP in ng/ml	23.73 ± 7.83 24.30 ± 8.02	95.87 ± 31.64 97.60 ± 32.21	153.66 ± 50.71 156.60 ± 51.68	MB ACCUBIND ELIS/ MB ACCULITE CLIA
CEA in ng/ml	3.92 ± 1.29 3.68 ± 1.21	19.09 ± 6.30 17.97 ± 5.93	37.43 ± 12.35 34.17 ± 11.28	MB ACCUBIND ELISA MB ACCULITE CLIA
CEA Next Generation in ng/ml	4.07 ± 1.34 3.71 ± 1.22	22.54 ± 7.44 20.69± 6.83	43.15 ± 14.24 42.12 ± 13.90	MB ACCUBIND ELISA MB ACCULITE CLIA
fPSA in ng/ml	1.11 ± 0.37 1.18 ± 0.39	3.22 ± 1.06 3.24 ± 1.07	>11	MB ACCUBIND ELISA MB ACCULITE CLIA
tPSA-XS in ng/ml	1.92 ± 0.63 2.25 ± 0.74	5.27 ± 1.74 5.50 ± 1.82	19.47 ± 6.42 18.25 ± 6.02	MB ACCUBIND ELIS/ MB ACCULITE CLIA
tPSA in ng/ml	2.30 ± 0.76 2.55 ± 0.84	5.86 ± 1.93 6.05 ± 2	20.58 ± 6.79 21.75 ± 7.18	MB ACCUBIND ELIS/ MB ACCULITE CLIA
ncer Markers Vast (CEA) in ng/ml	3.87 ± 1.28	18.12 ± 5.98	34.81 ± 11.49	MB ACCUBIND ELISA
(AFP) in ng/ml	3.45 ± 1.14 22.87 ± 7.55 20.94 ± 8.09	17.95 ± 5.91 90.89 ± 29.99 90.13± 29.74	33.45 ± 11.04 142.80 ± 47.12 147.03± 48.52	MB ACCULITE CLIA MB ACCUBIND ELISA
(tPSA) in ng/ml	1.88 ± 0.62	90.13±29.74 5.70±1.88	147.03±48.52 21.13±6.97 22.72±7.50	MB ACCULITE CLIA MB ACCUBIND ELISA
rdiac Markers	1.93 ± 0.75 0.32 ± 0.11	5.47± 1.81 1.33± 0.44	22.72 ± 7.50 2.68 ± 0.88	MB ACCULITE CLIA
Dig in ng/ml	0.32 ± 0.11 0.36 ± 0.12	1.33±0.44 1.40±0.46	2.68 ± 0.88 2.70 ± 0.89	MB ACCUBIND ELIS/ MB ACCULITE CLIA
C-Peptide in ng/ml	0.43 ± 0.14 0.45 ± 0.15	2.11±0.70 2.07±0.68	4.90 ± 1.62 4.89 ± 1.61	MB ACCUBIND ELISA
Insulin in µIU/mI	0.45 ± 0.15 14.46 ± 4.77 14.10 ± 4.65	2.07 ± 0.68 42.62 ± 14.06 43.60 ± 14.39	4.89 ± 1.61 138.13 ± 45.58 142.70 ± 47.09	MB ACCULITE CLIA MB ACCUBIND ELISA MB ACCULITE CLIA
Rapid Insulin in µIU/mI rtility	14.10 ± 4.80	43.03 ± 14.39	135.39 ± 44.68	MB ACCUBIND ELISA
FSH in mIU/mI	4.30 ± 1.42 4.13 ± 1.36	22.48 ± 7.42 22.02 ± 7.26	38.36 ± 12.66 39.82 ± 13.14	MB ACCUBIND ELISA MB ACCULITE CLIA
hCG in mIU/mI	6.16 ± 2.03	26.98 ± 8.90	136.94 ± 45.19	MB ACCUBIND ELISA
hCG-XR in mIU/mI	5.75± 1.90 3.98 ± 1.31	26.65 ± 8.79 29.10 ± 9.60	140.0 ± 46.20 110.26± 36.39	MB ACCULITE CLIA MB ACCUBIND ELISA
LH in mIU/mI	3.30 ± 1.09 4.93 ± 1.63	25.15 ± 8.30 25.72 ± 8.49	98.73 ± 32.58 49.85 ± 16.45	MB ACCULITE CLIA MB ACCUBIND ELISA
PRL in ng/ml	4.70 ± 1.55 3.57 ± 1.18	25.33 ± 8.36 15.68 ± 5.51	53.83 ± 17.76 28.44 ±9.38	MB ACCULITE CLIA MB ACCUBIND ELIS/
PRL-seq in ng/ml	3.70 ± 1.22 3.30 ± 1.09	15.20 ±5.02 11.90 ± 3.93	27.80 ± 9.17 16.70 ± 5.51	MB ACCULITE CLIA MB ACCUBIND ELISA
Rapid HCG in mIU/mI rtility Vast	3.88 ± 1.37 6.40 ± 2.11	10.90 ± 3.60 30.01 ± 9.90	16.08 ±5.30 145.10 ±47.88	MB ACCULITE CLIA MB ACCUBIND ELISA
(FSH) in mIU/ml	3.85± 1.27	18.78 ± 6.20	34.58 ± 11.41	MB ACCUBIND ELISA
(LH) in mIU/mI	3.85 ± 1.27 3.85± 1.25	16.75 ± 5.53 19.39± 6.40	33.90 ± 11.19 37.05 ± 12.22	MB ACCULITE CLIA MB ACCUBIND ELISA
(hCG) in mIU/mI	3.70± 1.22 6.19±2.04	17.25± 5.69 29.26 ± 9.65	37.70± 12.44 121.88±40.22 109.41+36.10	MB ACCULITE CLIA MB ACCUBIND ELIS/
ple Screen VAST	7.30 ± 2.84	26.22 ± 8.65		MB ACCULITE CLIA
(AFP) in ng/ml	24.57 ± 8.11 25.88 ± 8.54 0.93 ± 0.39	91.33 ± 30.14 96.77 ± 31.93 2.51 ± 0.83	158.30 ± 52.24 162.88 ± 53.75 6.78 ± 2.24	MB ACCUBIND ELISA MB ACCULITE CLIA MB ACCUBIND ELISA
(uE3) in ng/ml	0.95 ± 0.31 5.23 ± 1.72	2.51 ± 0.83 2.48 ± 0.82 27.26 ± 8.99	6.78 ± 2.24 5.89 ± 1.94 133.70 ± 44.12	MB ACCULITE CLIA MB ACCULITE CLIA
(hCG) in mIU/mI	5.23 ± 1.72 4.93 ± 1.63	26.73 ± 8.82	133.70 ± 44.12 132.87 ± 43.85	MB ACCULITE CLIA
hGH in µIU//ml	8.28 ± 2.73	25.50 ± 8.41	55.93 ± 19.84	MB ACCUBIND ELISA
eroids	2.85 ± 0.94	22.95 ± 7.57 15.26 ± 5.04	49.55 ± 16.35	MB ACCUBIND ELISA
Cortisol in µg/dl	2.99 ± 0.99 0.36 ± 0.14	14.48± 4.78 1.54 ± 0.51	28.05 ± 9.26 4.64 ± 1.53	MB ACCULITE CLIA MB ACCUBIND ELISA
DHEA-S in µg/ml	0.40 ± 0.13	1.44 ± 0.48	4.41 ± 1.46	MB ACCULITE CLIA
DHEA in ng/ml	0.88 ± 0.33 0.94 ± 0.54 51.30 ± 16.93	7.67±2.53 7.87±2.60 271.27±89.52	16.94 ± 5.59 19.14 ± 6.32 306.39 ± 101.11	MB ACCUBIND ELISA MB ACCULITE CLIA MB ACCUBIND ELISA
E2 in pg/ml	51.10 ± 16.86	266.17±87.84	306.39 ± 101.11 347.69 ± 118.50 22.95 ± 7.57	MB ACCULITE CLIA
Progesterone in ng/ml	1.21 ± 0.40 1.26 ± 0.41	8.03 ± 2.65 9.26 ± 3.05 2.22 ± 0.73	25.55 ± 8.43	MB ACCUBIND ELIS/ MB ACCULITE CLIA
17-OHP in ng/ml	0.58± 0.19 0.63± 0.21	2.22±0.73 2.36±0.78	5.46 ± 1.80 6.07 ± 2	MB ACCUBIND ELIS/ MB ACCULITE CLIA
17-OHP-SI in ng/ml	0.30 ± 0.10 0.30 ± 0.10 0.29 ± 0.10	1.26 ± 0.41 1.17 ± 0.39	2.70 ± 0.89 2.83 ± 0.94 6.71 ± 2.21	MB ACCUBIND ELISA MB ACCULITE CLIA MB ACCUBIND ELISA
Testosterone in ng/ml	0.29 ± 0.10 0.40 ± 0.13 1.05 ± 0.38	1.11 ± 0.37 1.25± 0.41 2.44 ± 0.80	6.71 ± 2.21 7.28 ± 2.40 5.76 + 2.26	MB ACCUBIND ELIS/ MB ACCULITE CLIA MB ACCUBIND ELIS/
uE3 in ng/ml E1 in ng/ml	1.05 ± 0.38 1.22 ± 0.40 41.10 ± 17.18	2.44 ± 0.80 2.89 ± 1.07 215.34 ± 71.06	5.76 ± 2.26 7.78 ± 2.57 799.55 ± 263.85	MB ACCUBIND ELISA MB ACCULITE CLIA MB ACCUBIND ELISA
E1 in ng/ml ANST in ng/ml	0.3 ± 0.11	1.11 ± 0.37	10.70 ± 3.53	MB ACCUBIND ELISA
Aldosterone in ng/ml	0.35 ± 0.12 47.32 ± 15.62	1.19 ± 0.39 340.36 ± 112.32	12.92 ± 4.26 958.90 ± 316.44	MB ACCULITE CLIA MB ACCUBIND ELISA
Free Testosterone (0-60pg/ml calibration)	41.60 ± 13.73 1.11 ± 0.48 1.25 ± 0.47	326.40 ± 107.71 2.81 ± 1.13 3.01 ± 0.99	960.13 ± 316.84 25.10 ± 10.32 27.86 ± 9.19	MB ACCUBIND ELISA
yroid	1.25 ± 0.47	3.01±0.99	27.86 ± 9.19	MB ACCULITE CLIA
T3 in ng/ml	0.53 ± 0.17 0.52 ± 0.17 3.2 ± 1.05	1.41±0.47 1.35±0.44 6.83±2.25	3.78 ± 1.25 3.70 ± 1.22 16.80 ± 5.54	MB ACCUBIND ELISA MB ACCULITE CLIA
T4 in µg/dl	3.2 ± 1.05 2.95 ± 0.97	6.83±2.25 6.77±2.23 5.02±1.66	16.80 ± 5.54 15.40 ± 5.08 33.82 ± 11.16	MB ACCUBIND ELISA MB ACCULITE CLIA
TSH in µIU/mI	0.62 ± 0.20 0.50 ± 0.17 2.09 ± 0.69	5.02 + 1.66 4.60 ± 1.52 3.51 + 1.16	33.82 ± 11.16 33.20 ± 10.95 7.05 ± 2.33	MB ACCUBIND ELISA MB ACCULITE CLIA
fT3 in pg/ml	2.09 ± 0.69 1.86 ± 0.61	3.51 ± 1.16 3.43 ± 1.13	7.06 ± 2.33 7.59 ± 2.50	MB ACCUBIND ELISA MB ACCULITE CLIA
fT4 in ng/dl	0.84 ± 0.28 0.84 ± 0.28	1.42 ± 0.47 1.36 ± 0.45	3.39 ± 1.12 3.52± 1.16	MB ACCUBIND ELISA MB ACCULITE CLIA
T3-Uptake in %U	31.40 ± 1.93 32.51 ± 1.90	30.17 ± 1.82 30.44 ± 1.83	45.61 ± 1.80 44.22 ± 1.79	MB ACCUBIND ELISA MB ACCULITE CLIA
Rapid TSH in µIU/mI	0.63 ± 0.21 0.51 ± 0.17	5.23 ± 1.72 5.26 ± 1.74 5 ± 1.65	31.54 ± 10.41 32.83 ± 10.84 31.71 ± 10.47	MB ACCUBIND ELISA MB ACCULITE CLIA MB ACCUBIND ELISA
TSH-RC in µIU/mI hyroid VAST	0.63 ± 0.21	5±1.65	31.71 ± 10.47	
(TSH) in µlU/ml	0.57 ± 0.19 0.55 ± 0.18	4.85 ± 1.60 4.84 ± 1.60	32.66 ± 10.78 30.79 ± 10.16	MB ACCUBIND ELISA MB ACCULITE CLIA
Strep T3 in ng/ml	0.55 ± 0.18 0.63 ± 0.21	1.37 ± 0.45 1.47 ± 0.49	3.09 ± 1.02 3.38 ± 1.12	MB ACCUBIND ELISA MB ACCULITE CLIA
Strep T4 in µg/dl	3.06 ± 1.01 2.75 ± 0.91	7.69 ± 2.99 7.92 ± 2.61	15.62 ± 5.15 14.52 ± 5.04	MB ACCUBIND ELISA MB ACCULITE CLIA
ee Thyroid VAST (TSH) in µlU/ml	0.48 ± 0.16	5.24 ± 1.73	29.73±9.81	MB ACCUBIND ELISA
	0.42 ± 0.14 1.82 ± 0.60	4.82 ± 1.59 3.54 ± 1.17	28.75± 9.49 8.09 ± 2.67	MB ACCULITE CLIA MB ACCUBIND ELISA
Strept fT3 in pg/ml	2.05 ± 0.72	3.64 ± 1.20	7.74 ± 2.55	MB ACCULITE CLIA