

LOT IM19101
IM19102
IM19103

 2019-10-31

Thermo
SCIENTIFIC

MAS[®] Immunology

LIQUID ASSAYED IMMUNOLOGY CONTROL

IVD

INTENDED USE

MAS[®] Immunology is intended for use in the clinical laboratory as a consistent test sample of known concentration for monitoring assay conditions in many immunological determinations. Include **Immunology** with patient serum specimens when assaying for any of the listed constituents. Assay values are provided for the specific systems listed. The user can compare observations with expected ranges as a means of assuring consistent performance of reagent and instrument.

PRODUCT DESCRIPTION

Immunology is a liquid stable control material prepared from human serum. Analyte levels are adjusted with various pure chemicals and preparations from human tissue or body fluids. Preservatives and stabilizers are added to maintain product integrity.

CAUTION: Immunology is prepared from human source material. Components of the control which are derived from human source material have been tested using FDA accepted methods and found non-reactive for Hepatitis B Surface Antigen (HBsAg), Hepatitis C (HCV), HIV-1 and HIV-2. However, no test method can offer complete assurance that products derived from human source material are free of infectious agents. This control must be handled in accordance with recommendations from Centers for Disease Control/National Institutes of Health manual, "Biosafety in Microbiological and Biomedical Laboratories," 2009.

CAUTION: The packaging of this product contains dry natural rubber.

CAUTION: Immunology also contains small quantities of sodium azide ($\leq 0.09\%$) which may react with lead or copper plumbing to form metal azides. Continuous build-up of metal azides can present an explosion hazard. Upon disposal, flush drains with copious amounts of water to prevent azide build-up. Clean exposed metal surfaces with 10% sodium hydroxide. Avoid contact with skin and mucous membranes. Flush affected areas with copious amounts of water. Get immediate medical attention for eyes, or if ingested.

STORAGE AND STABILITY

Store **Immunology** at 2-8°C. Unopened vials are stable until the expiration date on the label. Once opened, vials of control are stable for 30 days when stored tightly capped at 2-8°C. **Do not freeze.**

Bacterial contamination produces an increase in turbidity and/or a characteristic odor. Discard vial if evidence of microbial contamination is observed.

CONTROL RANGES

The published control ranges are based upon a combination of replicate assays of representative samples by participating laboratories, instrument/reagent manufacturers and direct correlation with other analytical systems in accordance with established protocol. Instrument values provided are specific to this lot of control only and are intended to assist the laboratory in establishing its own means and ranges. All values have been assigned with instruments and reagents available at the time of assay and expected values may vary with different reagents and/or methodologies. Laboratory established means should fall within the assigned ranges although subsequent instrument, reagent or calibration modifications may invalidate assigned values.

Peer comparison data and latest QC lot specific updates are available online through LabLink[®] xL Quality Assurance Program at www.maslablink.com. Refer to the Technical Assistance section for contact information.

INSTRUCTIONS FOR USE

Thoroughly mix the contents of the vial before each use by gently inverting for several minutes. Open the vial and transfer the required quantity of control into a clean sample cup. Replace cap immediately and store the opened vial at 2-8°C. Assay controls in accordance with the manufacturer's instructions for unknown specimens.

Dropper tips are available to help minimize exposure of control samples to air. **DO NOT** use a syringe needle to withdraw sample through the control bottle cap.

QUALITY CONTROL

All quality control requirements should be performed in conformance with local, state and/or federal regulations or accreditation requirements.

LIMITATIONS OF PROCEDURE

Compatibility of **Immunology** has been demonstrated only with methods shown in this insert. Caution should be employed when using these controls with methods for which values have not been printed.

The specificity of antibodies used in immunoassay procedures may vary between lots. As with patient specimens, cross-reactivities between certain constituents in this control serum may occur with some reagents. Consult reagent manufacturer's package insert regarding possible interferences.

Accurate and reproducible results are dependent upon properly functioning instruments, reagents, and good laboratory technique. This product is intended for use as an assayed control for quantitative assays of listed constituents in human serum. This product is not intended for use as a calibrator. For professional use only.

TECHNICAL ASSISTANCE

In the USA, for technical assistance, call 800-232-3342 or 510-979-5417. For insert updates and information, if your laboratory subscribes to LabLink xL, visit www.maslablink.com and select LabLink Extra. Alternatively, to subscribe to LabLink xL call 800-232-3342 or 510-979-5451.

Outside of the USA, if your laboratory subscribes to LabLink xL, visit www.maslablink.com select LabLink Extra. Alternatively, please contact your local sales office or authorized distributor.

Cat. No.	Description	Size
IC-101	MAS [®] Immunology, Level 1	6 x 3 mL
IC-202	MAS [®] Immunology, Level 2	6 x 3 mL
IC-303	MAS [®] Immunology, Level 3	6 x 3 mL
286-606	Dropper Tips	Pkg. 100

MAS[®] Immunology

免疫分析检测控制液

IVD

用途

MAS[®] Immunology 用于在临床实验室中作为一种已知浓度的一致性测试样品，以便在许多免疫鉴定中监控其检测条件。将 Immunology 加入患者的血清标本内，以检测任何列明的成分。针对所列出的特定系统，能够提供检测值。使用者可将观测结果与预期范围加以比较，以此方式来确保试剂和仪器的性能一致。

产品描述

Immunology 是一种由人体血清制备而成的稳定性控制液。由多种纯化学物和取自人体组织或体液的制剂，调制出不同浓度的分析物。此外还加入防腐剂和稳定剂，以保持产品的完整性。

注意：Immunology 的制备材料取自人体。取自人体材料的控制成分均使用 FDA 所认可的方法进行了测试，并显示对乙肝表面抗原 (HBsAg)、丙型肝炎病毒 (HCV)、HIV-1 和 HIV-2 等无活性反应。然而，任何检测方法都不能完全保证取自人体材料的产品不含传染性病原。此控制成分的处理必须遵照美国疾病控制与预防中心 / 国立卫生研究院出版的手册《微生物及生物医学实验室的生物安全》(2009) 执行。

注意：本产品的包装含干燥天然橡胶成分。

注意：Immunology 还含有少量的叠氮化钠 ($\leq 0.09\%$)，其可能与铅和铜反应，形成金属叠氮化物。金属叠氮化物持续堆积可能引起爆炸危险。处理时，使用大量的水冲洗下水道，以防止叠氮化物堆积。用 10% 氢氧化钠清洁暴露的金属表面。避免本品接触皮肤和粘膜。一旦接触，立即用大量水冲洗接触部位。本品意外接触眼部或被摄入人体后，请立即就医。

贮存及稳定性

贮存 Immunology 在 2-8°C 温度下。未开封药瓶在标签上所列的失效日期之前一直保持稳定性。一旦开瓶后，将控制液盖紧瓶盖贮存在 2-8°C 温度下可保持稳定性 30 日。禁止冷冻。

细菌污染会使产品浑浊度增加和 / 或产生特别的气味。如果观察到微生物污染的现象，请将药瓶丢弃。

控制范围

公布的控制范围是根据对代表性样品进行反复检测的结果汇集而成。参与这些检测的包括实验室、仪器 / 试剂制造商，其执行均按照既定的协议规定，与其他分析系统直接相关。所提供的仪器数值只针对该批控制产品而定，其目的是协助实验室建立出自己的平均值和范围。所有数值都是在检测当时，就可取得的仪器和试剂进行检测而定出。采用不同的试剂和 / 或研究方法可能会得出不同的预期值。实验室所建立的平均值应落在所指定的范围内，尽管随后的仪器、试剂或校准修正可能使指定的值无效。

对等体组比较数据和最新的各批品管更新内容，可通过 www.maslablink.com 的 LabLink[®] xL Quality Assurance Program 在网上获取。请参阅“技术援助”部分以取得联系信息。

使用说明

每次使用前，请轻轻地反复倒转药瓶数分钟，以彻底混合瓶内的物质。打开药瓶，将所需分量的控制液倒入一个干净的样品杯内。立即更换瓶盖，并将已开封的药瓶贮存在 2-8°C 温度下。未知标本的分析检测控制液遵循制造商的说明。

附带滴管使用提示，以帮助尽可能减少将控制液样品暴露于空气中。请勿使用注射针头插穿瓶盖提取样品。

质量控制

所有有关质量控制的要求都应遵照地方、州和 / 或联邦法规或认证要求来执行。

程序限制

有关兼容性方面，Immunology 仅通过本插页中所列的方法进行证明。如果采用的方法未列明有关的值，则使用这些控制液时应格外谨慎。

每批产品的免疫检测程序中所用抗体的特性，可能会有所不同。如同与患者标本那样，此血清控制液与某些试剂混合，其中的某些成分之间可能会出现交叉反应。请参阅试剂制造商的包装说明插件，以了解可能出现的干扰。

仪器的正常功能、试剂、和实验室技术良好与否，都能决定是否可能取得准确而可复制的结果。本产品旨在用作一种检测控制液，对人体血清中所列的成分进行定量检测。本产品并非作为校准用途。仅适于专业使用。

技术援助

美国国内：寻求技术援助，请致电 800-232-3342 或 510-979-5417。有关插页的更新和信息，如果贵实验室订阅了 LabLink xL，请访问 www.maslablink.com 并选择 LabLink Extra。或者，如欲订阅 LabLink xL，请致电 800-232-3342 或 510-979-5451。

美国以外地区：如果您的实验室订阅了 LabLink xL，请访问 www.maslablink.com 并选择 LabLink Extra。或者，请联系您当地的销售办事处或获授权经销商。

目录编号

IC-101
IC-202
IC-303
286-606

说明

MAS[®] Immunology, 第 1 级
MAS[®] Immunology, 第 2 级
MAS[®] Immunology, 第 3 级
滴管使用提示

尺寸

6 x 3 mL
6 x 3 mL
6 x 3 mL
包装数量：100

MAS[®] Immunology

LIQUID ASSAYED IMMUNOLOGY CONTROL

IVD

U	CON							SI							
	IM19101A		IM19102A		IM19103A		U	IM19101A		IM19102A		IM19103A		U	
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ABBOTT AEROSET/ARCHITECT SYSTEMS															
Albumin	BCG (7D53)	2.30	1.84 - 2.76	4.61	3.69 - 5.53	6.67	5.34 - 8.00	g/dL	23.0	18.4 - 27.6	46.1	36.9 - 55.3	66.7	53.4 - 80.0	g/L
Albumin	BGP (7D54)	**		**		**		g/dL	**		**		**		g/L
Alpha-1-Acid Glycoprotein (AAG)	Immunoturbidimetric (6L34)	**		**		**		mg/dL	**		**		**		g/L
Alpha-1-Antitrypsin (A1-AT)	Immunoturbidimetric (6K99)	**		**		**		mg/dL	**		**		**		g/L
Antistreptolysin O (ASO)	Immunoturbidimetric (6K38)	121	97.1 - 146	233	186 - 280	346	277 - 415	IU/mL	121	97.1 - 146	233	186 - 280	346	277 - 415	kIU/L
Apolipoprotein A1	Immunoturbidimetric (9D92)	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Apolipoprotein B	Immunoturbidimetric (9D93)	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Beta-2-Microglobulin (B2M)	Immunoturbidimetric (6K39)	**		**		**		mg/dL	**		**		**		mg/L
Beta-2-Microglobulin (B2M)	Immunoturbidimetric (6K39 Non U.S.)	**		**		**		mg/dL	**		**		**		mg/L
C-Reactive Protein, VARIO	Immunoturbidimetric (CRP48) (6K26)	**		**		**		mg/dL	**		**		**		mg/L
C-Reactive Protein, VARIO	Immunoturbidimetric, hsCRP (CRP16) (6K26)	0.99	0.79 - 1.19	4.15	3.32 - 4.98	7.52	6.02 - 9.02	mg/dL	9.90	7.90 - 11.9	41.5	33.2 - 49.8	75.2	60.2 - 90.2	mg/L
Ceruloplasmin	Immunoturbidimetric (6K91)	**		**		**		mg/dL	**		**		**		g/L
Complement C3	Immunoturbidimetric (9D96)	67.8	54.3 - 81.4	147	118 - 177	237	169 - 305	mg/dL	0.68	0.54 - 0.81	1.47	1.18 - 1.77	2.37	1.69 - 3.05	g/L
Complement C4	Immunoturbidimetric (9D97)	12.6	10.1 - 15.1	28.7	23.0 - 34.5	43.0	34.4 - 51.5	mg/dL	0.13	0.10 - 0.15	0.29	0.23 - 0.34	0.43	0.34 - 0.52	g/L
Ferritin****	CMIA (7K59)	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Ferritin****	CMIA (7K59 Non U.S.)	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Ferritin****	Immunoturbidimetric (6K41)	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Ferritin****	Immunoturbidimetric (6K41 Non U.S.)	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Haptoglobin	Immunoturbidimetric (9D91)	80.1	64.1 - 96.1	171	137 - 205	>250		mg/dL	0.80	0.64 - 0.96	1.71	1.37 - 2.05	>2.50		g/L
Immunoglobulin A (IgA)	Immunoturbidimetric (9D98)	121	96.8 - 145	232	186 - 278	353	282 - 424	mg/dL	1.21	0.97 - 1.45	2.32	1.86 - 2.78	3.53	2.82 - 4.24	g/L
Immunoglobulin E (IgE)	Latex Particles (6K42)	132	105 - 158	279	223 - 335	407	325 - 488	IU/mL	132	105 - 158	279	223 - 335	407	325 - 488	kIU/L
Immunoglobulin E (IgE)	Latex Particles (6K42 Non U.S.)	**		**		**		IU/mL	**		**		**		kIU/L
Immunoglobulin G (IgG)	Immunoturbidimetric (9D99)	1328	1063 - 1594	2255	1804 - 2706	3134	2507 - 3761	mg/dL	13.3	10.6 - 15.9	22.6	18.0 - 27.1	31.3	25.1 - 37.6	g/L
Immunoglobulin M (IgM)	Immunoturbidimetric (1E01)	46.0	36.8 - 55.2	89.5	71.6 - 107	133	106 - 160	mg/dL	0.46	0.37 - 0.55	0.90	0.72 - 1.07	1.33	1.06 - 1.60	g/L
KAPPA Light Chains	Turbidimetric/Immunoturbidimetric (6K96/GK96)	**		**		**		mg/dL	**		**		**		g/L
LAMBDA Light Chains	Turbidimetric/Immunoturbidimetric (4P80/GK63)	**		**		**		mg/dL	**		**		**		g/L
Prealbumin	Immunoturbidimetric (1E02)	14.0	11.2 - 16.8	29.7	23.7 - 35.6	44.2	35.3 - 53.0	mg/dL	140	112 - 168	297	237 - 356	442	353 - 530	mg/L
Rheumatoid Factor (RF)***	Immunoturbidimetric - 1:1.0 (6K44 Quantia)	**		**		**		IU/mL	**		**		**		kIU/L
Rheumatoid Factor (RF)***	Immunoturbidimetric - 1:0.35 (6K44 Quantia)	**		**		**		IU/mL	**		**		**		kIU/L
Rheumatoid Factor (RF)***	Immunoturbidimetric (8G66 Abbott)	32.2	23.9 - 40.5	68.9	55.1 - 82.7	104	82.9 - 124	IU/mL	32.2	23.9 - 40.5	68.9	55.1 - 82.7	104	82.9 - 124	kIU/L
Rheumatoid Factor (RF)***	Immunoturbidimetric (DiaSys)	**		**		**		IU/mL	**		**		**		kIU/L
Total Protein	Benzethonium Chloride (7D79)	**		**		**		mg/dL	**		**		**		g/L
Total Protein	Biuret (7D73)	4.49	3.59 - 5.39	8.65	6.92 - 10.4	12.7	10.2 - 15.3	g/dL	44.9	35.9 - 53.9	86.5	69.2 - 104	127	102 - 153	g/L
Transferrin	Immunoturbidimetric (1E04)	157	126 - 189	330	264 - 396	492	393 - >500	mg/dL	1.57	1.26 - 1.89	3.30	2.64 - 3.96	4.92	3.93 - >5.00	g/L

MAS[®] Immunology

LIQUID ASSAYED IMMUNOLOGY CONTROL

IVD

U	CON							SI						
	IM19101A		IM19102A		IM19103A		U	IM19101A		IM19102A		IM19103A		U
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BECKMAN AU SERIES														
Albumin (ALB) BCG (OSR6x02)	2.25	1.80 - 2.70	4.56	3.65 - 5.47	>6.00		g/dL	22.5	18.0 - 27.0	45.6	36.5 - 54.7	>60.0		g/L
Albumin (ALB) BCG (OSR6x02 Non U.S.)	**		**		**		g/dL	**		**		**		g/L
Alpha-1-Acid Glycoprotein (AAG)														
Immunoturbidimetric (OSR6162)	**		**		**		mg/dL	**		**		**		g/L
Alpha-1-Antitrypsin (AAT)														
Immunoturbidimetric (OSR6163)	77.6	62.1 - 93.1	156	125 - 187	240	192 - 287	mg/dL	0.78	0.62 - 0.93	1.56	1.25 - 1.87	2.40	1.92 - 2.87	g/L
Antistreptolysin O (ASO)														
Immunoturbidimetric (OSR6194)	**		**		**		IU/mL	**		**		**		kIU/L
Antistreptolysin O (ASO)														
Immunoturbidimetric (OSR6194 Non U.S.)	**		**		**		IU/mL	**		**		**		kIU/L
Apolipoprotein A1 (ApoA1)														
Immunoturbidimetric (OSR6142)	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Apolipoprotein B (ApoB)														
Immunoturbidimetric (OSR6143)	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Beta-2-Microglobulin (B2M)														
Immunoturbidimetric (OSR6151)	0.28	0.22 - 0.34	0.58	0.46 - 0.70	0.84	0.67 - 1.01	mg/dL	2.80	2.20 - 3.40	5.80	4.60 - 7.00	8.40	6.70 - 10.1	mg/L
Ceruloplasmin (CER)														
Immunoturbidimetric (OSR6164)	19.5	15.6 - 23.4	38.6	30.9 - 46.3	55.2	44.1 - 66.2	mg/dL	0.20	0.16 - 0.23	0.39	0.31 - 0.46	0.55	0.44 - 0.66	g/L
Complement C3 (C3)														
Immunoturbidimetric (OSR6159)	67.0	53.6 - 80.4	144	116 - 173	220	176 - 264	mg/dL	0.67	0.54 - 0.80	1.44	1.16 - 1.73	2.20	1.76 - 2.64	g/L
Complement C4 (C4)														
Immunoturbidimetric (OSR6160)	12.0	9.61 - 14.4	28.9	23.1 - 34.6	44.7	35.8 - 53.7	mg/dL	0.12	0.10 - 0.14	0.29	0.23 - 0.35	0.45	0.36 - 0.54	g/L
C-Reactive Protein (CRP)														
Immunoturbidimetric (OSR6147)	0.88	0.70 - 1.06	4.04	3.23 - 4.85	7.38	5.90 - 8.86	mg/dL	8.80	7.00 - 10.6	40.4	32.3 - 48.5	73.8	59.0 - 88.6	mg/L
C-Reactive Protein (CRP) Latex														
Immunoturbidimetric (OSR6199)	0.95	0.76 - 1.14	4.14	3.31 - 4.97	7.36	5.89 - 8.83	mg/dL	9.50	7.60 - 11.4	41.4	33.1 - 49.7	73.6	58.9 - 88.3	mg/L
C-Reactive Protein (CRP) Latex														
Immunoturbidimetric (OSR6199 Non U.S.)	**		**		**		mg/dL	**		**		**		mg/L
Ferritin (FERR)****														
Latex Particle Turbidimetric (OSR61203)	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Ferritin (FERR)****														
Latex Particle Turbidimetric (OSR61203 Non U.S.)	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Haptoglobin (HAPT)														
Immunoturbidimetric (OSR6165)	78.3	62.6 - 93.9	157	125 - 188	233	186 - 280	mg/dL	0.78	0.63 - 0.94	1.57	1.25 - 1.88	2.33	1.86 - 2.80	g/L
Immunoglobulin A (IgA)														
Immunoturbidimetric (OSR61171)	124	99.3 - 149	247	198 - 297	369	295 - 442	mg/dL	1.24	0.99 - 1.49	2.47	1.98 - 2.97	3.69	2.95 - 4.42	g/L
Immunoglobulin G (IgG)														
Immunoturbidimetric (OSR61172)	1283	1026 - 1539	2070	1656 - 2484	2864	2291 - >3000	mg/dL	12.8	10.3 - 15.4	20.7	16.6 - 24.8	28.6	22.9 - >30.0	g/L
Immunoglobulin M (IgM)														
Immunoturbidimetric (OSR61173)	45.3	36.2 - 54.3	83.8	67.0 - 101	121	97.0 - 145	mg/dL	0.45	0.36 - 0.54	0.84	0.67 - 1.01	1.21	0.97 - 1.45	g/L
Immunoglobulin M (IgM)														
Immunoturbidimetric (OSR61173 Non U.S.)	**		**		**		mg/dL	**		**		**		g/L
Prealbumin (PALB)														
Immunoturbidimetric (OSR6175)	15.0	12.0 - 18.0	30.4	24.3 - 36.5	42.0	33.6 - 50.4	mg/dL	150	120 - 180	304	243 - 365	420	336 - 504	mg/L
Rheumatoid Factor (RF)***														
Immunoturbidimetric (OSR61105)	**		**		**		IU/mL	**		**		**		kIU/L
Total Protein (TP)														
Modified Weichselbaum (OSR6x32)	4.89	3.91 - 5.87	8.77	7.02 - 10.5	>12.0		g/dL	48.9	39.1 - 58.7	87.7	70.2 - 105	>120		g/L
Total Protein (TP)														
Modified Weichselbaum (OSR6x32 Non U.S.)	**		**		**		g/dL	**		**		**		g/L
Transferrin (TRF)														
Immunoturbidimetric (OSR6152)	162	129 - 194	324	259 - 389	487	390 - 584	mg/dL	1.62	1.29 - 1.94	3.24	2.59 - 3.89	4.87	3.90 - 5.84	g/L

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	IM19101A		IM19102A		IM19103A		U	IM19101A		IM19102A		IM19103A		U
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BECKMAN COULTER DXC / SYNCHRON SYSTEMS														
Albumin (ALB/ALBm) BCP (442765/467858)	2.34	1.87 - 2.81	4.74	3.79 - 5.69	6.90	5.52 - >7.00	g/dL	23.4	18.7 - 28.1	47.4	37.9 - 56.9	69.0	55.2 - >70.0	g/L
Antistreptolysin O (ASO)	**		**		**		IU/mL	**		**		**		kIU/L
Apolipoprotein A1 Immunoturbidimetric	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Apolipoprotein B Immunoturbidimetric	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Complement C3 (C3) Turbidimetric	**		**		**		mg/dL	**		**		**		g/L
Complement C4 (C4) Turbidimetric	**		**		**		mg/dL	**		**		**		g/L
C-Reactive Protein (CRP) Turbidimetric	**		**		**		mg/dL	**		**		**		mg/L
C-Reactive Protein hs (CRPH) Turbidimetric	0.96	0.77 - 1.15	4.31	3.45 - 5.17	7.15	5.72 - >8.00	mg/dL	9.60	7.70 - 11.5	43.1	34.5 - 51.7	71.5	57.2 - >80.0	mg/L
Haptoglobin (HPT) Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin A (IgA) Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin E (IgE) Chemiluminescence	**		**		**		IU/mL	**		**		**		kIU/L
Immunoglobulin G (IgG) Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin M (IgM) Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L
Prealbumin (PAB) Immunoturbidimetric	14.0	11.2 - 16.8	31.5	25.2 - 37.8	48.1	38.5 - 57.8	mg/dL	140	112 - 168	315	252 - 378	481	385 - 578	mg/L
Rheumatoid Factor (RF)*** Immunoturbidimetric	**		**		**		IU/mL	**		**		**		kIU/L
Total Protein (TP) Timed Endpoint Biuret (442740)	5.17	4.14 - 6.20	9.19	7.35 - 11.0	>12.0		g/dL	51.7	41.4 - 62.0	91.9	73.5 - 110	>120		g/L
Total Protein (TPm) Rate Biuret (465986)	**		**		**		g/dL	**		**		**		g/L
Transferrin (TRFN) Immunoturbidimetric	157	126 - 188	322	257 - 386	491	393 - 589	mg/dL	1.57	1.26 - 1.88	3.22	2.57 - 3.86	4.91	3.93 - 5.89	g/L

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		IM19101A		IM19102A		IM19103A		IM19101A		IM19102A		IM19103A		U	
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BECKMAN COULTER IMAGE SYSTEMS															
ADNase****	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Albumin (ALB)	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Alpha-1 Acid Glycoprotein (AAG)	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Alpha-1 Antitrypsin (AAT)	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Alpha-2 Macroglobulin	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Antistreptolysin O (ASO)	Rate Nephelometric	**		**		**		IU/mL	**		**		**		kIU/L
Antithrombin III (AT3)	Rate Nephelometric	**		**		**		mg/dL	**		**		**		mg/L
Apolipoprotein A1	Rate Nephelometric	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Apolipoprotein B	Rate Nephelometric	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Beta-2 Microglobulin	Rate Nephelometric	**		**		**		mg/dL	**		**		**		mg/L
C-Reactive Protein (CRP)	Rate Nephelometric	**		**		**		mg/dL	**		**		**		mg/L
C-Reactive Protein, High Sensitivity (hsCRP)	Rate Nephelometric	**		**		**		mg/dL	**		**		**		mg/L
Ceruloplasmin	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Complement C3	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Complement C4	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Ferritin****	Rate Nephelometric	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Haptoglobin	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin A (IgA)	Rate Nephelometric (446460)	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin A (IgALC)	Rate Nephelometric (447460)	**		**		**		mg/dL	**		**		**		mg/L
Immunoglobulin E (IgE)	Rate Nephelometric	**		**		**		IU/mL	**		**		**		kIU/L
Immunoglobulin G (IgG)	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin M (IgM)	Rate Nephelometric (447610)	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin M (IgMLC)	Rate Nephelometric (447470)	**		**		**		mg/dL	**		**		**		mg/L
KAPPA Light Chain	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
KAPPA Light Chain, Free	Rate Nephelometric (Binding Site)	**		**		**		mg/dL	**		**		**		mg/L
LAMBDA Light Chain	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
LAMBDA Light Chain, Free	Rate Nephelometric (Binding Site)	**		**		**		mg/dL	**		**		**		mg/L
Prealbumin	Rate Nephelometric	**		**		**		mg/dL	**		**		**		mg/L
Properdin Factor B	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Rheumatoid Factor (RF)***	Rate Nephelometric	**		**		**		IU/mL	**		**		**		kIU/L
Total Protein	Rate Nephelometric	**		**		**		g/dL	**		**		**		g/L
Transferrin	Rate Nephelometric	**		**		**		mg/dL	**		**		**		g/L

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ORTHO-VITROS SYSTEMS														
Albumin (ALB) BCG	**		**		**		g/dL	**		**		**		g/L
Albumin (ALB) DiAgam Reagent	2.56	2.05 - 3.07	4.81	3.85 - 5.77	7.19	5.75 - 8.63	g/dL	25.6	20.5 - 30.7	48.1	38.5 - 57.7	71.9	57.5 - 86.3	g/L
Alpha-1 Acid Glycoprotein (AGP) DiAgam Reagent	54.4	43.5 - 65.3	105	84.1 - 126	155	124 - 185	mg/dL	0.54	0.44 - 0.65	1.05	0.84 - 1.26	1.55	1.24 - 1.85	g/L
Alpha-1-Antitrypsin (AAT) Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L
Alpha-2 Macroglobulin DiAgam Reagent	107	85.8 - 129	205	164 - 245	298	238 - 357	mg/dL	1.07	0.86 - 1.29	2.05	1.64 - 2.45	2.98	2.38 - 3.57	g/L
Antistreptolysin O (ASO) Immunoturbidimetric	**		**		**		IU/mL	**		**		**		kIU/L
Apolipoprotein A1 Immunoturbidimetric	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Apolipoprotein B Immunoturbidimetric	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Complement C3 (C3) Chemiluminescence	**		**		**		mg/dL	**		**		**		g/L
Complement C4 (C4) Chemiluminescence	**		**		**		mg/dL	**		**		**		g/L
C-Reactive Protein (CRP) EIA	**		**		**		mg/dL	**		**		**		mg/L
C-Reactive Protein (CRP) DiAgam Reagent	0.91	0.73 - 1.09	4.10	3.28 - 4.92	7.14	5.71 - 8.57	mg/dL	9.10	7.30 - 10.9	41.0	32.8 - 49.2	71.4	57.1 - 85.7	mg/L
Ferritin**** Immunoturbidimetric	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Haptoglobin Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L
Haptoglobin DiAgam Reagent	84.7	67.7 - 102	170	136 - 204	250	200 - 300	mg/dL	0.85	0.68 - 1.02	1.70	1.36 - 2.04	2.50	2.00 - 3.00	g/L
Immunoglobulin A (IgA) Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin G (IgG) Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin M (IgM) Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L
Prealbumin Immunoturbidimetric	**		**		**		mg/dL	**		**		**		mg/L
Rheumatoid Factor (RF)*** Two-Point Rate	**		**		**		IU/mL	**		**		**		kIU/L
Total Protein Biuret	**		**		**		g/dL	**		**		**		g/L
Transferrin Immunoturbidimetric	**		**		**		mg/dL	**		**		**		g/L

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SIEMENS DIMENSION SYSTEMS														
Albumin (ALB) BCP	**		**		**		g/dL	**		**		**		g/L
Alpha-1 Acid Glycoprotein (XAGP) Sentinel	**		**		**		mg/dL	**		**		**		g/L
Antistreptolysin O (ASO) Sentinel	**		**		**		IU/mL	**		**		**		kIU/L
Apolipoprotein A1 Sentinel	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Apolipoprotein B Sentinel	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Complement C3 (C3) Immunoturbidimetric	65.9	52.7 - 79.1	141	113 - 169	224	180 - 269	mg/dL	0.66	0.53 - 0.79	1.41	1.13 - 1.69	2.24	1.80 - 2.69	g/L
Complement C4 (C4) Immunoturbidimetric	12.2	9.76 - 14.6	26.8	21.4 - 32.1	40.6	32.4 - 48.7	mg/dL	0.12	0.10 - 0.15	0.27	0.21 - 0.32	0.41	0.32 - 0.49	g/L
C-Reactive Protein (CRP) PETIA	0.87	0.69 - 1.05	4.95	3.96 - 5.94	9.59	7.67 - 11.5	mg/dL	8.70	6.90 - 10.5	49.5	39.6 - 59.4	95.9	76.7 - 115	mg/L
C-Reactive Protein hs (RCRP) PETIA	**		**		**		mg/dL	**		**		**		mg/L
Ferritin (FERR)**** EIA	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Haptoglobin (XHPT) Sentinel	**		**		**		mg/dL	**		**		**		g/L
Immunoglobulin A (IgA) Turbidimetric	120	95.8 - 144	243	194 - 292	367	294 - 440	mg/dL	1.20	0.96 - 1.44	2.43	1.94 - 2.92	3.67	2.94 - 4.40	g/L
Immunoglobulin G (IgG) Turbidimetric	1311	1048 - 1573	2248	1798 - 2697	3210	2568 - 3852	mg/dL	13.1	10.5 - 15.7	22.5	18.0 - 27.0	32.1	25.7 - 38.5	g/L
Immunoglobulin M (IgM) Turbidimetric	53.8	43.1 - 64.6	92.4	73.9 - 111	136	109 - 164	mg/dL	0.54	0.43 - 0.65	0.92	0.74 - 1.11	1.36	1.09 - 1.64	g/L
Prealbumin (PALB) PETIA	15.6	12.5 - 18.7	33.2	26.5 - 39.8	>50.0		mg/dL	156	125 - 187	332	265 - 398	>500		mg/L
Rheumatoid Factor (RF)*** Sentinel	**		**		**		IU/mL	**		**		**		kIU/L
Total Protein (TP) Modified Biuret	**		**		**		g/dL	**		**		**		g/L
Transferrin (TRNF) Turbidimetric	**		**		**		mg/dL	**		**		**		g/L

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SIEMENS VISTA SYSTEMS															
Albumin (ALB)	BCP	2.33	1.86 - 2.80	4.69	3.75 - 5.63	7.13	5.70 - >8.00	g/dL	23.3	18.6 - 28.0	46.9	37.5 - 56.3	71.3	57.0 - >80.0	g/L
Albumin (sALB)	Nephelometric	2364	1891 - 2837	4778	3823 - 5734	7274	5586 - 8963	mg/dL	23.6	18.9 - 28.4	47.8	38.2 - 57.3	72.7	55.9 - 89.6	g/L
Alpha-1-Acid Glycoprotein (A1AG)	Nephelometric	**		**		**		mg/dL	**		**		**		g/L
Alpha-1-Antitrypsin (A1AT)	Nephelometric	82.3	65.8 - 98.8	178	142 - 213	283	227 - 340	mg/dL	0.82	0.66 - 0.99	1.78	1.42 - 2.13	2.83	2.27 - 3.40	g/L
Antistreptolysin O (ASL)	Nephelometric	186	149 - 224	344	275 - 413	518	414 - 621	IU/mL	186	149 - 224	344	275 - 413	518	414 - 621	kIU/L
Apolipoprotein A1	Nephelometric	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Apolipoprotein B	Nephelometric	As Found		As Found		As Found		mg/dL	As Found		As Found		As Found		g/L
Beta-2-Microglobulin (B2MIC)	Nephelometric	0.29	0.23 - 0.35	0.60	0.48 - 0.72	0.92	0.74 - 1.10	mg/dL	2.90	2.30 - 3.50	6.00	4.80 - 7.20	9.20	7.40 - 11.0	mg/L
Ceruloplasmin (CER)	Nephelometric	21.2	17.0 - 25.5	44.4	35.5 - 53.3	68.1	54.5 - 81.7	mg/dL	0.21	0.17 - 0.25	0.44	0.36 - 0.53	0.68	0.54 - 0.82	g/L
Complement C3 (C3)	Nephelometric	67.5	54.0 - 81.1	149	119 - 179	232	186 - 278	mg/dL	0.68	0.54 - 0.81	1.49	1.19 - 1.79	2.32	1.86 - 2.78	g/L
Complement C4 (C4)	Nephelometric	13.1	10.4 - 15.7	27.3	21.8 - 32.7	42.2	33.8 - 50.7	mg/dL	0.13	0.10 - 0.16	0.27	0.22 - 0.33	0.42	0.34 - 0.51	g/L
C-Reactive Protein (CRP)	Nephelometric	0.88	0.70 - 1.06	4.11	3.29 - 4.93	7.42	5.94 - 8.90	mg/dL	8.80	7.00 - 10.6	41.1	32.9 - 49.3	74.2	59.4 - 89.0	mg/L
Ferritin (FERR)****	LOCI™	As Found		As Found		As Found		ng/mL	As Found		As Found		As Found		µg/L
Haptoglobin (HAPT)	Nephelometric	80.0	64.0 - 96.0	167	134 - 201	257	205 - 308	mg/dL	0.80	0.64 - 0.96	1.67	1.34 - 2.01	2.57	2.05 - 3.08	g/L
Immunoglobulin A (IgA)	Nephelometric	128	103 - 154	259	207 - 311	396	317 - 476	mg/dL	1.28	1.03 - 1.54	2.59	2.07 - 3.11	3.96	3.17 - 4.76	g/L
Immunoglobulin E (IGE)	Nephelometric	**		**		**		IU/mL	**		**		**		kIU/L
Immunoglobulin G (IGG)	Nephelometric	1257	1005 - 1508	2013	1611 - 2416	2888	2311 - 3466	mg/dL	12.6	10.1 - 15.1	20.1	16.1 - 24.2	28.9	23.1 - 34.7	g/L
Immunoglobulin G (IGG1)	Nephelometric	**		**		**		mg/dL	**		**		**		mg/L
Immunoglobulin G (IgG2)	Nephelometric	**		**		**		mg/dL	**		**		**		mg/L
Immunoglobulin G (IgG3)	Nephelometric	**		**		**		mg/dL	**		**		**		mg/L
Immunoglobulin G (IgG4)	Nephelometric	**		**		**		mg/dL	**		**		**		mg/L
Immunoglobulin M (IgM)	Nephelometric	52.3	41.9 - 62.8	94.9	75.9 - 114	139	112 - 167	mg/dL	0.52	0.42 - 0.63	0.95	0.76 - 1.14	1.39	1.12 - 1.67	g/L
Prealbumin (PREALB)	Nephelometric	15.0	12.0 - 18.0	29.9	23.9 - 35.9	48.5	38.0 - 59.0	mg/dL	150	120 - 180	299	239 - 359	485	380 - 590	mg/L
Rheumatoid Factor (RF)***	Nephelometric	22.4	17.9 - 26.9	49.9	39.9 - 59.9	81.8	65.4 - 98.1	IU/mL	22.4	17.9 - 26.9	49.9	39.9 - 59.9	81.8	65.4 - 98.1	kIU/L
Total Protein (TP)	Biuret	5.33	4.26 - 6.40	9.61	7.69 - 11.5	>12.0		g/dL	53.3	42.6 - 64.0	96.1	76.9 - 115	>120		g/L
Transferrin (TRF)	Nephelometric	152	121 - 182	318	255 - 382	483	386 - >560	mg/dL	1.52	1.21 - 1.82	3.18	2.55 - 3.82	4.83	3.86 - >5.60	g/L

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BECKMAN AU SERIES															
Rheumatoid Factor (RF)***	Immunoturbidimetric (OSR61105)	30.5	24.4 - 36.7	63.1	50.5 - 75.7	94.0	75.2 - 113	IU/mL	30.5	24.4 - 36.7	63.1	50.5 - 75.7	94.0	75.2 - 113	kIU/L
BECKMAN COULTER DXC / SYNCHRON SYSTEMS															
C-Reactive Protein (CRP)	Turbidimetric	0.78	0.62 - 0.94	4.21	3.37 - 5.05	7.91	6.33 - 9.49	mg/dL	7.80	6.24 - 9.36	42.1	33.7 - 50.5	79.1	63.3 - 94.9	mg/L
BINDING SITE OPTILITE[®] ANALYSER (Non U.S.)															
Albumin	Immunoturbidimetric	2.21	1.77 - 2.66	4.52	3.61 - 5.42	6.73	5.38 - 8.08	g/dL	22.1	17.7 - 26.6	45.2	36.1 - 54.2	67.3	53.8 - 80.8	g/L
Alpha-1 Acid Glycoprotein (A1AGP)	Immunoturbidimetric	50.1	40.1 - 60.1	104	82.8 - 124	151	121 - 181	mg/dL	0.50	0.40 - 0.60	1.04	0.83 - 1.24	1.51	1.21 - 1.81	g/L
Alpha-1 Antitrypsin (A1AT)	Immunoturbidimetric	71.4	57.1 - 85.7	159	127 - 190	255	204 - 306	mg/dL	0.71	0.57 - 0.86	1.59	1.27 - 1.90	2.55	2.04 - 3.06	g/L
Alpha-2 Macroglobulin (A2M)	Immunoturbidimetric	99.2	79.4 - 119	185	148 - 222	275	220 - 330	mg/dL	0.99	0.79 - 1.19	1.85	1.48 - 2.22	2.75	2.20 - 3.30	g/L
Antistreptolysin O (ASO)	Immunoturbidimetric	196	157 - 235	386	308 - 463	598	478 - 717	IU/mL	196	157 - 235	386	308 - 463	598	478 - 717	kIU/L
Beta-2 Microglobulin (B2M)	Immunoturbidimetric	0.29	0.23 - 0.35	0.53	0.43 - 0.64	0.83	0.66 - 0.99	mg/dL	2.88	2.31 - 3.46	5.35	4.28 - 6.42	8.28	6.63 - 9.94	mg/L
C-Reactive Protein (CRP)	Immunoturbidimetric	0.93	0.74 - 1.11	4.65	3.72 - 5.58	8.47	6.78 - 10.2	mg/dL	9.28	7.42 - 11.1	46.5	37.2 - 55.8	84.7	67.8 - 102	mg/L
Caeruloplasmin	Immunoturbidimetric	14.2	11.4 - 17.0	32.8	26.2 - 39.4	52.4	41.9 - 62.9	mg/dL	0.14	0.11 - 0.17	0.33	0.26 - 0.39	0.52	0.42 - 0.63	g/L
Complement C3 (C3)	Immunoturbidimetric	72.2	57.8 - 86.6	156	125 - 187	243	195 - 292	mg/dL	0.72	0.58 - 0.87	1.56	1.25 - 1.87	2.43	1.95 - 2.92	g/L
Complement C4 (C4)	Immunoturbidimetric	12.5	10.0 - 15.0	27.3	21.8 - 32.8	42.2	33.8 - 50.6	mg/dL	0.13	0.10 - 0.15	0.27	0.22 - 0.33	0.42	0.34 - 0.51	g/L
Haptoglobin	Immunoturbidimetric	73.2	58.6 - 87.8	152	122 - 183	233	186 - 280	mg/dL	0.73	0.59 - 0.88	1.52	1.22 - 1.83	2.33	1.86 - 2.80	g/L
Immunoglobulin A (IgA)	Immunoturbidimetric	112	89.2 - 134	224	179 - 269	340	272 - 408	mg/dL	1.12	0.89 - 1.34	2.24	1.79 - 2.69	3.40	2.72 - 4.08	g/L
Immunoglobulin G (IgG)	Immunoturbidimetric	1286	1029 - 1543	2132	1706 - 2559	2952	2362 - >3500	mg/dL	12.9	10.3 - 15.4	21.3	17.1 - 25.6	29.5	23.6 - >35.0	g/L
Immunoglobulin M (IgM)	Immunoturbidimetric	42.5	34.0 - 51.0	81.6	65.3 - 97.9	120	95.6 - 143	mg/dL	0.43	0.34 - 0.51	0.82	0.65 - 0.98	1.20	0.96 - 1.43	g/L
Prealbumin	Immunoturbidimetric	12.0	9.60 - 14.4	26.5	21.2 - 31.8	41.5	33.2 - 49.8	mg/dL	120	96.0 - 144	265	212 - 318	415	332 - 498	mg/L
Rheumatoid Factor (RF)***	Immunoturbidimetric	36.5	29.2 - 43.8	77.5	62.0 - 93.0	>104		IU/mL	36.5	29.2 - 43.8	77.5	62.0 - 93.0	>104		kIU/L
Transferrin	Immunoturbidimetric	149	119 - 179	299	239 - 359	440	352 - 528	mg/dL	1.49	1.19 - 1.79	2.99	2.39 - 3.59	4.40	3.52 - 5.28	g/L
BINDING SITE SPAPLUS[®] ANALYSER (Non U.S.)															
Albumin	Immunoturbidimetric	2.27	1.82 - 2.72	4.77	3.82 - 5.72	7.43	5.94 - 8.91	g/dL	22.7	18.2 - 27.2	47.7	38.2 - 57.2	74.3	59.4 - 89.1	g/L
Alpha-1 Acid Glycoprotein (A1AGP)	Immunoturbidimetric	52.9	42.3 - 63.5	96.3	77.0 - 116	147	117 - 176	mg/dL	0.53	0.42 - 0.63	0.96	0.77 - 1.16	1.47	1.17 - 1.76	g/L
Alpha-1 Antitrypsin (A1AT)	Immunoturbidimetric	76.4	61.1 - 91.7	154	123 - 185	242	194 - 290	mg/dL	0.76	0.61 - 0.92	1.54	1.23 - 1.85	2.42	1.94 - 2.90	g/L
Alpha-2 Macroglobulin (A2M)	Immunoturbidimetric	95.8	76.6 - 115	187	149 - 224	289	231 - 347	mg/dL	0.96	0.77 - 1.15	1.87	1.49 - 2.24	2.89	2.31 - 3.47	g/L
Antistreptolysin O (ASO)	Immunoturbidimetric	207	165 - 248	392	313 - 470	604	483 - 725	IU/mL	207	165 - 248	392	313 - 470	604	483 - 725	kIU/L
Beta-2 Microglobulin (B2M)	Immunoturbidimetric	0.31	0.25 - 0.37	0.59	0.47 - 0.71	0.88	0.70 - 1.05	mg/dL	3.09	2.47 - 3.71	5.93	4.74 - 7.11	8.79	7.03 - 10.5	mg/L
C-Reactive Protein (CRP)	Immunoturbidimetric	0.86	0.69 - 1.03	4.34	3.47 - 5.21	7.67	6.14 - 9.20	mg/dL	8.58	6.86 - 10.3	43.4	34.7 - 52.1	76.7	61.4 - 92.0	mg/L
Caeruloplasmin	Immunoturbidimetric	15.3	12.2 - 18.4	37.3	29.8 - 44.8	60.0	48.0 - 72.0	mg/dL	0.15	0.12 - 0.18	0.37	0.30 - 0.45	0.60	0.48 - 0.72	g/L
Complement C3 (C3)	Immunoturbidimetric	65.7	52.6 - 78.8	143	115 - 172	224	179 - 269	mg/dL	0.66	0.53 - 0.79	1.43	1.15 - 1.72	2.24	1.79 - 2.69	g/L
Complement C4 (C4)	Immunoturbidimetric	12.5	10.0 - 15.0	27.5	22.0 - 33.0	42.9	34.3 - 51.5	mg/dL	0.13	0.10 - 0.15	0.28	0.22 - 0.33	0.43	0.34 - 0.51	g/L
Haptoglobin	Immunoturbidimetric	75.8	60.6 - 91.0	155	124 - 186	234	187 - 281	mg/dL	0.76	0.61 - 0.91	1.55	1.24 - 1.86	2.34	1.87 - 2.81	g/L
Immunoglobulin A (IgA)	Immunoturbidimetric	123	98.5 - 148	256	204 - 307	385	308 - 462	mg/dL	1.23	0.98 - 1.48	2.56	2.04 - 3.07	3.85	3.08 - 4.62	g/L
Immunoglobulin E (IgE)	Immunoturbidimetric	150	120 - 180	293	234 - 351	455	364 - 546	IU/mL	150	120 - 180	293	234 - 351	455	364 - 546	kIU/L
Immunoglobulin G (IgG)	Immunoturbidimetric	1360	1088 - 1632	2423	1938 - 2908	3272	2617 - >3500	mg/dL	13.6	10.9 - 16.3	24.2	19.4 - 29.1	32.7	26.2 - >35.0	g/L
Immunoglobulin M (IgM)	Immunoturbidimetric	51.8	41.4 - 62.2	87.4	69.9 - 105	131	105 - 157	mg/dL	0.52	0.41 - 0.62	0.87	0.70 - 1.05	1.31	1.05 - 1.57	g/L
Prealbumin	Immunoturbidimetric	12.5	10.0 - 15.0	26.6	21.3 - 31.9	40.6	32.5 - 48.7	mg/dL	125	100 - 150	266	213 - 319	406	325 - 487	mg/L
Rheumatoid Factor (RF)***	Immunoturbidimetric	35.7	28.6 - 42.9	76.9	61.5 - 92.3	>104		IU/mL	35.7	28.6 - 42.9	76.9	61.5 - 92.3	>104		kIU/L
Transferrin	Immunoturbidimetric	147	118 - 177	302	242 - 362	473	378 - >560	mg/dL	1.47	1.18 - 1.77	3.02	2.42 - 3.62	4.73	3.78 - >5.60	g/L
ORTHO-VITROS SYSTEMS															
Alpha-1-Antitrypsin (AAT)	Immunoturbidimetric	74.6	52.2 - 97.0	173	121 - 225	262	183 - 340	mg/dL	0.75	0.52 - 0.97	1.73	1.21 - 2.25	2.62	1.83 - 3.40	g/L
Antistreptolysin O (ASO)	Immunoturbidimetric	181	127 - 235	367	257 - 477	545	381 - 708	IU/mL	181	127 - 235	367	257 - 477	545	381 - 708	kIU/L
Complement C3 (C3)	Chemiluminescence	67.5	47.3 - 87.8	153	107 - 199	234	164 - 304	mg/dL	0.68	0.47 - 0.88	1.53	1.07 - 1.99	2.34	1.64 - 3.04	g/L
Complement C4 (C4)	Chemiluminescence	12.2	8.52 - 15.8	27.6	19.3 - 35.9	41.0	28.7 - 53.3	mg/dL	0.12	0.09 - 0.16	0.28	0.19 - 0.36	0.41	0.29 - 0.53	g/L
C-Reactive Protein (CRP)	EIA	0.87	0.61 - 1.13	4.04	2.83 - 5.26	5.28	3.70 - 6.87	mg/dL	8.70	6.09 - 11.3	40.4	28.3 - 52.6	52.8	37.0 - 68.7	mg/L
Immunoglobulin A (IgA)	Immunoturbidimetric	124	86.6 - 161	257	180 - 334	373	261 - 484	mg/dL	1.24	0.87 - 1.61	2.57	1.80 - 3.34	3.73	2.61 - 4.84	g/L
Immunoglobulin G (IgG)	Immunoturbidimetric	1436	1005 - 1867	2627	1839 - >2700	>2700		mg/dL	14.4	10.1 - 18.7	26.3	18.4 - >27.0	>27.0		g/L
Immunoglobulin M (IgM)	Immunoturbidimetric	49.2	34.4 - 63.9	95.1	66.6 - 124	132	92.7 - 172	mg/dL	0.49	0.34 - 0.64	0.95	0.67 - 1.24	1.32	0.93 - 1.72	g/L
Prealbumin	Immunoturbidimetric	14.2	9.95 - 18.5	28.9	20.3 - 37.6	42.9	30.0 - >46.0	mg/dL	142	99.5 - 185	289	203 - 376	429	300 - >460	mg/L
Rheumatoid Factor (RF)***	Two-Point Rate	29.7	20.8 - 38.7	58.2	40.7 - 75.7	77.6	54.3 - 101	IU/mL	29.7	20.8 - 38.7	58.2	40.7 - 75.7	77.6	54.3 - 101	kIU/L
Total Protein	Biuret	4.11	2.88 - 5.34	7.65	5.36 - 9.95	10.8	7.54 - >11.0	g/dL	41.1	28.8 - 53.4	76.5	53.6 - 99.5	108	75.4 - >110	g/L
ROCHE COBAS C / E / MODULAR SYSTEMS															
Albumin	BCG (ALB2)	2.42	1.94 - 2.91	4.76	3.81 - 5.72	>6.00		g/dL	24.2	19.4 - 29.1	47.6	38.1 - 57.2	>60.0		g/L
Complement C3 (C3)	Immunoturbidimetric (C3C-2)	71.8	57.5 - 86.2	157	126 - 189	247	197 - 296	mg/dL	0.72	0.57 - 0.86	1.57	1.26 - 1.89	2.47	1.97 - 2.96	g/L
C-Reactive Protein (CRP)	Immunoturbidimetric (CRPHS)	0.99	0.79 - 1.19	>2.00		>2.00		mg/dL	9.91	7.93 - 11.9	>20.0		>20.0		mg/L
C-Reactive Protein (CRP)	Immunoturbidimetric (CRPL3)	0.83	0.66 - 0.99	4.13	2.78 - 5.48	7.27	5.17 - 8.82	mg/dL	8.27	6.62 - 9.93	41.3	27.8 - 54.8	72.7	57.1 - 88.2	mg/L
Rheumatoid Factor (RF)***	Immunoturbidimetric (RF-II)	31.4	25.1 - 37.7	63.5	50.8 - 76.2	90.8	72.7 - 109	IU/mL	31.4	25.1 - 37.7	63.5	50.8 - 76.2	90.8	72.7 - 109	kIU/L
Total Protein	Colorimetric (TP2)	4.82	3.85 - 5.78	8.59	6.87 - 10.3	12.0	9.57 - >12.0	g/dL	48.2	38.5 - 57.8	85.9	68.7 - 103	120	95.7 - >120	g/L
Transferrin	Immunoturbidimetric (TRSF2)	157	125 - 188	328	262 - 393	495	396 - >520	mg/dL	1.57	1.25 - 1.88	3.28	2.62 - 3.93	4.95	3.96 - >5.20	g/L
SIEMENS DIMENSION SYSTEMS															
C-Reactive Protein hs (RCRP)	PETIA	1.14	0.92 - 1.37	4.35	3.48 - 5.22	7.80	6.24 - 9.36	mg/dL	11.4	9.16 - 13.7	43.5	34.8 - 52.2	78.0	62.4 - 93.6	mg/L

LOT IM19101
IM19102
IM19103



2019-10-31

Insert update / Aktualisierung der Packungsbeilage / Mise à jour de la notice / Aggiornamento del foglietto illustrativo / Actualización de prospecto / Opdatering af indlægsseddel / Update invoeogen / Tuoteselosteen päivitys / Ενμέριση ένθετου / Opdatering av pakningsvedlegg / Aktualizacja ulotki / Atualização do folheto / Обновление вкладыша / Uppdatering av bipacksedel / Prospektiis güncellemesi / 插页更新 / 添付文書改訂版

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SIEMENS DIMENSION SYSTEMS															
C-Reactive Protein (CRP)	PETIA	0.52	<0.20 - 0.92	4.95	3.96 - 5.94	8.93	6.60 - 11.3	mg/dL	5.25	<2.00 - 9.16	49.5	39.6 - 59.4	89.3	66.0 - 113	mg/L

- *** **Rheumatoid Factor may decrease over the product shelf life.**
- *** Rheumatoider faktor kann niedrigere Werte anzeigen oder das Verfalldatum überschritten ist.
- *** Les taux de Facteur rhumatoïde e sont susceptibles de décroître au cours pendant sa durée de vie avant péremption.
- *** I valori di Fattore reumatoide possono diminuire durante nel periodo di validità del prodotto.
- *** El factor reumatoideo a pueden disminuir después la vida útil del producto.
- *** Rheumafaktoren kan reduceres hen over produktets holdbarhetstid.
- *** Reumafactor kan afnemen gedurende de houdbaarheidsperiode van het product.
- *** Reumatekijä voi vähentyä tuotteen säilytysaikana.
- *** Ο ρευματοειδής παράγοντας ενδέχεται να μειωθεί κατά τη διάρκεια της ζωής του προϊόντος.
- *** Revmatoidfaktor kan reduceres i løpet av produktets holdbarhetstid.
- *** Stężenie czynnika reumatoidalnego może się obniżać z czasem przechowywania produktu.
- *** O factor reumatóide pode diminuir após a data de validade do produto.
- *** Ревматоидный фактор может сокращаться в течение срока хранения продукта.
- *** Värdet för reumatoid faktor kan minska ju närmre utgångsdatum produkten befinner sig.
- *** Romatoid Faktörü, ürünün raf ömrü süresince azalabilir.
- *** 类风湿因子在产品保质期内可能会降低
- *** リウマチ因子は、製品の有効期間を過ぎると、低下する可能性があります。

Advia®, **Immulate®**, Reg. TM: Siemens Healthcare Diagnostics, Tarrytown, NY
Architect®, **Aeroset®**, Reg. TM: Abbott Diagnostics, Abbott Park, IL
Beckman Coulter AU Series®, **Access®**, **Image®**, **Synchron/DxC series®**, Reg. TM: Beckman Coulter, Brea, CA
BN II, **BN ProSpec®**: Siemens Healthcare Diagnostics, GmbH, Marburg Germany
Dimension®, **Dimension Vista®**: Siemens Healthcare Diagnostics, Glasgow DE
Hitachi®, **Integra®**, **Cobas 6000®**, Reg. TM: Roche Diagnostics, Indianapolis, IN
Vitros®, Reg. TM: Ortho-Clinical Diagnostics, Rochester, NY

** **Data not available. If interested in participating in our value assignment process, please fax or email your contact information to our Value Assignment group at 510-771-1539, or mgc-va@thermofisher.com.**

** Keine Daten verfügbar. Falls Sie interessiert sind, an unserem Wertzuweisungsverfahren teilzunehmen, senden Sie bitte ein Fax oder eine E-Mail mit Ihren Kontaktdaten an unsere Abteilung „Value Assignment“ unter 510-771-1539 bzw. mgc-va@thermofisher.com.

** Données non disponibles. Si vous souhaitez participer à notre processus d'affectation des valeurs, veuillez nous faire parvenir vos coordonnées par fax ou par e-mail au groupe Value Assignment au 510-771-1539 ou à l'adresse mgc-va@thermofisher.com.

** Dati non disponibili. Per partecipare al processo di assegnazione dei valori, inviare tramite fax o e-mail le proprie informazioni di contatto al gruppo di assegnazione dei valori al numero 510-771-1539 o all'indirizzo mgc-va@thermofisher.com.

** Datos no disponibles. Si está interesado en participar en nuestro proceso de asignación de valores, envíe un fax o un correo electrónico con su información de contacto a nuestro grupo de asignación de valores al +1 510-771-1539 o a mgc-va@thermofisher.com.

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** Geen gegevens beschikbaar. Als u geïnteresseerd bent in deelname aan ons waardetoekeningsproces, kunt u uw contactgegevens per fax of e-mail naar onze Value Assignment-groep sturen. Tel.: 510-771-1539. E-mail: mgc-va@thermofisher.com.

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** Informações não disponíveis. Caso esteja interessado em participar no nosso processo de atribuição de valores, por favor envie por fax ou por e-mail as suas informações de contacto para o nosso grupo de atribuição de valores pelo número 510-771-1539, ou mgc-va@thermofisher.com.

** Данных нет. Если вы заинтересованы в участии в нашем процессе оценки, обращайтесь в нашу группу оценки по факсу 510-771-1539 или по электронной почте mgc-va@thermofisher.com и укажите свою контактную информацию.

** Data ej tillgängliga. Om du är intresserad av att delta i vår process för fastställning av värden kan du skicka ett fax eller e-postmeddelande med dina kontaktppgifter till vår avdelning för analysvärden, telefonnummer +1 510-771-1539 eller mgc-va@thermofisher.com.

** Mevcut değil. Değer atama sürecimize katılmaya ilgi duyarsanız, lütfen iletişim bilgilerinizi 510-771-1539 numarasındaki Değer Atama grubumuza fakslayın veya mgc-va@thermofisher.com'a veya e-posta gönderin.

** 无法提供数据。如果有兴趣参与我们的赋值过程，请传真或以电子邮件发送您的联系方式到我们的赋值小组。传真号码 510-771-1539，或 mgc-va@thermofisher.com。

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*** **Rheumatoid Factor may decrease over the product shelf life.**

*** Rheumatoider faktor kann niedrigere Werte anzeigen oder das Verfalldatum überschritten ist.

*** Les taux de Facteur rhumatoïde e sont susceptibles de décroître au cours pendant sa durée de vie avant péremption.

*** I valori di Fattore reumatoide possono diminuire durante nel periodo di validità del prodotto.

*** El factor reumatoideo a pueden disminuir después la vida útil del producto.

*** Rheumafaktoren kan reduceres hen over produktets holdbarhetstid.

*** Reumafactor kan afnemen gedurende de houdbaarheidsperiode van het product.

*** Reumatekijä voi vähentyä tuotteen säilytysaikana.

*** Ο ρευματοειδής παράγοντας ενδέχεται να μειωθεί κατά τη διάρκεια της ζωής του προϊόντος.

*** Revmatoidfaktor kan reduceres i løpet av produktets holdbarhetstid.

*** Stężenie czynnika reumatoidalnego może się obniżyć z czasem przechowywania produktu.

*** O factor reumatóide pode diminuir após a data de validade do produto.

*** Ревматоидный фактор может сокращаться в течение срока хранения продукта.

*** Värdet för reumatoid faktor kan minska ju närmre utgångsdatum produkten befinner sig.

*** Romatoid Faktör, ürünün raf ömrü süresince azalabilir.

*** 类风湿因子在产品保质期内可能会降低

*** リウマチ因子は、製品の有効期間を過ぎると、低下する可能性があります。

**** **No stability claim is made.**

**** Es werden keine Merkmale hinsichtlich der Stabilität zugesichert.

**** Il n' existe aucune déclaration de stabilité.

**** Non viene fornita alcuna garanzia per la stabilità.

**** No se garantiza la estabilidad.

**** Der er ingen angivelse af stabilitet.

**** Stabilitet wordt niet gegarandeerd.

**** Stabiiliusväärtäit ei esitetä.

**** Δεν πραγματοποιείται καμία αξιωση σταθερότητας.

**** Det gis ingen garantier knyttet til stabilitet.

**** Stabilność nie jest deklarowana.

**** Não são feitas declarações quanto à estabilidade.

**** Не делается никаких заявлений о стабильности.

**** Vi gör inga anspråk angående stabiliteten.

**** Stabilité iddiasında bulunulmamıştır.

**** 未提及稳定性。

**** 安定性に関する保証はありません。

If you have any questions concerning this notification, in the USA please contact the Technical Support Department at 800-232-3342 or 510-979-5417. Outside the USA, please contact your local Subsidiary or Distributor.

Falls Sie Fragen zu dieser Benachrichtigung haben, wenden Sie sich in den USA an den technischen Kundendienst unter 800-232-3342 oder 510-979-5417. Außerhalb der USA wenden Sie sich bitte an die Vertriebsniederlassung in Ihrer Nähe oder an einen autorisierten Vertriebspartner.

Aux États-Unis, pour toute question concernant cet avis, contacter le Service d'assistance technique au 800-232-3342 ou au 510-979-5417. En dehors des États-Unis, contacter la filiale locale ou le distributeur local.

Per domanda relative a questa notifica e vi trovate negli Stati Uniti, rivolgersi al servizio di assistenza tecnica al numero verde 800-232-3342 o al numero 510-979-5417. Al di fuori degli Stati Uniti, rivolgersi alla filiale locale o al distributore.

Para cualquier consulta acerca de esta notificación, en EE.UU. póngase en contacto con el Departamento de Asistencia técnica en los números 800-232-3342 or 510-979-5417. Fuera de EE.UU., póngase en contacto con la subsidiaria o el distribuidor local.

Hvis du har nogle spørgsmål til denne meddelelse, kan du kontakte den tekniske supportafdeling på 800-232-3342 eller 510-979-5417, hvis du befinder dig i USA. Uden for USA kan du kontakte det lokale datterselskab eller distributøren.

Als u vragen hebt over deze kennisgeving, kunt u contact opnemen met de afdeling Technische ondersteuning op 800-232-3342 of 510-979-5417. Buiten de VS kunt u contact opnemen met de vestiging of distributeur in uw land.

Jos sinulla on kysyttävää tästä ilmoituksesta, ota Yhdysvalloissa yhteyttä tekniseen tukeen numeroon 800 232 3342 tai 510 979 5417. Ota Yhdysvaltojen ulkopuolella yhteyttä paikalliseen tytäryhtiöön tai jälleenmyyjään.

Για οποιοδήποτε ερωτήσεις αναφορικά με την παρούσα ειδοποίηση, εντός Η.Π.Α., επικοινωνήστε με το Τμήμα τεχνικής υποστήριξης στον αριθμό 800-232-3342 ή 510-979-5417. Εκτός Η.Π.Α., επικοινωνήστε με την τοπική σας θυγατρική ή τον τοπικό διανομέα.

Dersom du befinner deg i USA og har spørsmål knyttet til denne orienteringen, kontakt avdelingen for teknisk støtte på 800-232-3342 eller 510-979-5417. Dersom du befinner deg utenfor USA, kontakte din lokale forhandler eller distributør.

W razie jakichkolwiek pytań dotyczących tego powiadomienia, należy skontaktować się z działem wsparcia technicznego pod numerem 800-232-3342 lub 510-979-5417 (na obszarze Stanów Zjednoczonych). Poza obszarem Stanów Zjednoczonych należy skontaktować się z lokalnym oddziałem firmy lub dystrybutorem.

Se tiver quaisquer questões relativas a esta notificação, nos EUA por favor contacte o departamento de assistência técnica através do número 800-232-3342 ou 510-979-5417. Fora dos EUA, por favor contacte a filial da sua área ou o distribuidor local.

Если у вас есть вопросы относительно этого уведомления, в США обращайтесь в департамент технической поддержки по телефону 800-232-3342 или 510-979-5417. За пределами США обращайтесь в местную дочернюю компанию или к дистрибьютору.

Om du har några frågor om den här informationen och befinner dig i USA kan du kontakta vår avdelning för teknisk support på telefonnummer +1 800-232-3342 eller +1 510-979-5417. Utanför USA kan du kontakta ditt lokala avdelningskontor eller en distributör.

Bu bildirime dair herhangi bir sorunuz varsa, ABD'de lütfen 800-232-3342 veya 510-979-5417 numaralı Teknik Destek Departmanı ile iletişim kurun. ABD'nin dışında, lütfen yerel Bayi veya Dağıtıcı ile iletişim kurun.

如果您有任何关于此通知的问题，在美国国内，请联系 800-232-3342 或 510-979-5417 技术支持部门。在美国以外地区，请联系您当地的分公司或经销商。

本通知に関するお問い合わせについては、米国内からはお電話にて (800-232-3342 または 510-979-5417) テクニカルサポート部門までお問い合わせください。米国外の場合は、地域の子会社または代理店までお問い合わせください。

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