

# MAS<sup>®</sup> CSF

## LIQUID ASSAYED CEREBROSPINAL FLUID CONTROL

**IVD**

### INTENDED USE

**MAS<sup>®</sup> CSF** is intended for use in the clinical laboratory as a consistent test sample of known concentration for monitoring assay conditions in many cerebrospinal fluid determinations. Include CSF with patient cerebrospinal fluid 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

**CSF** is a liquid stable control material prepared from human serum. Analyte levels are adjusted with various pure chemicals. Preservatives and stabilizers are added to maintain product integrity.

**WARNING: CSF** control contains  $\leq 2.0\%$  Human Source Material and  $\leq 1.0\%$  Methanol. H371 - May cause damage to the central nervous system and eyes when ingested.

Do not breathe mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. If exposed or if you feel unwell: call a Poison Center or doctor/physician. Store locked up. Dispose of contents/container to location in accordance with local/regional/national/international/regulations.

**CSF** 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. The packaging of this product contains dry natural rubber.

### STORAGE AND STABILITY

Store **CSF** 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 assigned ranges for these controls are based upon replicate assays of representative samples of the product by participating laboratories in accordance with established protocol. All values have been assigned with instruments and instrument manufacturer's reagents available at the time of assay. Subsequent instrument or reagent modifications may invalidate these assigned ranges.

Expected values may vary slightly with different reagent and/or methodologies used. Refer to the included table for values obtained for specific systems. Values listed are specific for this lot of control only. Good laboratory practice suggests that each laboratory establish its own parameters.

### 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 the cap immediately and store the opened vial at 2-8°C. Assay controls in accordance with the reagent and/or instrument 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

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](http://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](http://www.maslablink.com) select LabLink Extra. Alternatively, please contact your local sales office or authorized distributor.

Cat. No.	Description	Size
CSF-MP 286-606	CSF, Multi-Pack Dropper Tips	6 x 3.5 mL Pkg. 100

**LOT** SF24031A  
SF24032A

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		SF24031A		SF24032A		<b>U</b>	SF24031A		SF24032A		<b>U</b>
		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>	
<b>ABBOTT AEROSET / ARCHITECT SYSTEMS</b>											
Albumin	Immunoturbidimetric (2K98)	18.8	15.1 - 22.6	43.4	34.7 - >50.0	mg/dL	188	151 - 226	434	347 - >500	mg/L
Chloride (Cl)	Indirect ISE (2P32)	128	103 - >150	80.9	64.7 - 97.1	mEq/L	128	103 - >150	80.9	64.7 - 97.1	mmol/L
Glucose	Hexokinase / G-6-PDH (3L82)	58.3	46.6 - 69.9	36.8	29.4 - 44.1	mg/dL	3.23	2.59 - 3.88	2.04	1.63 - 2.45	mmol/L
Lactate Dehydrogenase (LDH)											
Lactate	Lactate to Pyruvate (2P56)	21.8	14.3 - 29.3	52.0	40.8 - 63.2	U/L	0.36	0.24 - 0.49	0.87	0.68 - 1.06	µkat/L
Lactic Acid	Lactate to Pyruvate (DiaSys)	**		**		mg/dL	**		**		mmol/L
Lactic Acid	Lactate to Pyruvate (9P18)	17.8	14.3 - 21.4	76.6	61.3 - 91.9	mg/dL	1.98	1.58 - 2.37	8.50	6.80 - 10.2	mmol/L
Potassium (K)	Indirect ISE (2P32)	2.60	2.08 - 3.12	3.97	3.18 - 4.76	mEq/L	2.60	2.08 - 3.12	3.97	3.18 - 4.76	mmol/L
Sodium (Na)	Indirect ISE (2P32)	146	116 - 175	124	<100 - 149	mEq/L	146	116 - 175	124	<100 - 149	mmol/L
Total Protein	Benzethonium Chloride (7D79)	26.3	21.1 - 31.6	61.0	48.8 - 73.2	mg/dL	263	211 - 316	610	488 - 732	mg/L

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		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>	
<b>ABBOTT ALINITY SYSTEMS</b>											
Chloride (Cl)	Indirect ISE (07P53)	**		**		mEq/L	**		**		mmol/L
Glucose	Hexokinase / G-6-PDH (07P55)	60.2	48.2 - 72.2	37.9	30.3 - 45.5	mg/dL	3.34	2.67 - 4.01	2.10	1.68 - 2.52	mmol/L
Lactate Dehydrogenase (LDH)											
	Lactate to Pyruvate (07P74)	**		**		U/L	**		**		µkat/L
Lactic Acid	Lactate to Pyruvate (08P21)	**		**		mg/dL	**		**		mmol/L
Potassium (K)	Indirect ISE (07P53)	**		**		mEq/L	**		**		mmol/L
Sodium (Na)	Indirect ISE (07P53)	**		**		mEq/L	**		**		mmol/L
Total Protein	Benzethonium Chloride (07P59)	26.5	21.2 - 31.8	62.0	49.6 - 74.4	mg/dL	265	212 - 318	620	496 - 744	mg/L

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		SF24031A		SF24032A		<b>U</b>	SF24031A		SF24032A		<b>U</b>	
		<b>X̄</b>	<b>&lt;R&gt;</b>	<b>X̄</b>	<b>&lt;R&gt;</b>		<b>X̄</b>	<b>&lt;R&gt;</b>	<b>X̄</b>	<b>&lt;R&gt;</b>		
<b>BECKMAN COULTER AU SERIES</b>												
Albumin	Turbidimetric (UALB)	**		**			mg/dL	**		**		mg/L
Chloride (Cl)	Indirect ISE	**		**			mEq/L	**		**		mmol/L
Glucose	Hexokinase (OSR6x21)	61.9	49.5 - 74.3	38.7	30.9 - 46.4		mg/dL	3.44	2.75 - 4.12	2.15	1.72 - 2.58	mmol/L
Lactate Dehydrogenase (LDH)												
	Lactate to Pyruvate (OSR6x27)	**		**			U/L	**		**		µkat/L
Lactic Acid	Lactate Oxidase (OSR6193)	17.0	13.6 - 20.4	73.2	58.6 - 87.9		mg/dL	1.89	1.51 - 2.27	8.13	6.50 - 9.76	mmol/L
Total Protein	Pyrogallol Red (OSR6x70)	31.8	25.4 - 38.1	67.3	53.8 - 80.7		mg/dL	318	254 - 381	673	538 - 807	mg/L

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






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<b>BECKMAN COULTER DXC / SYNCHRON SYSTEMS</b>													
Chloride (Cl)	Indirect ISE	**		**		mEq/L	**		**		mmol/L		
Glucose	Hexokinase (GLU / GLUH)	**		**		mg/dL	**		**		mmol/L		
Glucose	Glucose Oxidase (GLUCm)	**		**		mg/dL	**		**		mmol/L		
Lactate Dehydrogenase (LDH)													
Lactate Dehydrogenase (LDH)	Lactate to Pyruvate, IFCC (LD)	**		**		U/L	**		**		µkat/L		
Lactate Dehydrogenase (LDH)	Pyruvate to Lactate (LD-P)	**		**		U/L	**		**		µkat/L		
Lactic Acid	Enzymatic (LACT)	**		**		mg/dL	**		**		mmol/L		
Potassium (K)	Indirect ISE	**		**		mEq/L	**		**		mmol/L		
Sodium (Na)	Indirect ISE	**		**		mEq/L	**		**		mmol/L		
Total Protein	Timed Endpoint (M-TP)	**		**		mg/dL	**		**		mg/L		
Total Protein	Rate Biuret (TPm)	**		**		mg/dL	**		**		mg/L		

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		<b>X̄</b>	<b>&lt;R&gt;</b>	<b>X̄</b>	<b>&lt;R&gt;</b>		<b>X̄</b>	<b>&lt;R&gt;</b>	<b>X̄</b>	<b>&lt;R&gt;</b>			
<b>BECKMAN COULTER IMMAGE SYSTEMS</b>													
Albumin	Rate Nephelometric	17.8	14.2 - 21.3	41.9	33.5 - 50.2	mg/dL	178	142 - 213	419	335 - 502	mg/L		

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		$\bar{x}$	<R>	$\bar{x}$	<R>	U	$\bar{x}$	<R>	$\bar{x}$	<R>	U
<b>FLAME PHOTOMETER</b>											
Potassium (K)	Flame Photometry	**		**		mEq/L	**		**		mmol/L
Sodium (Na)	Flame Photometry	**		**		mEq/L	**		**		mmol/L

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		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>	
<b>ORTHO-VITROS CHEMISTRY SYSTEMS</b>											
Chloride (Cl)	Direct ISE	**		**		mEq/L	**		**		mmol/L
Glucose	Glucose Oxidase	56.8	45.4 - 68.2	37.0	29.6 - 44.4	mg/dL	3.15	2.52 - 3.78	2.05	1.64 - 2.46	mmol/L
Lactate Dehydrogenase (LDH)											
	Pyruvate to Lactate	**		**		U/L	**		**		µkat/L
Lactic Acid	Lactate to Pyruvate	**		**		mg/dL	**		**		mmol/L
Potassium (K)	Direct ISE	**		**		mEq/L	**		**		mmol/L
Sodium (Na)	Direct ISE	**		**		mEq/L	**		**		mmol/L
Total Protein	Copper-Azo Dye	50.0	40.0 - 60.0	115	91.9 - 138	mg/dL	500	400 - 600	1149	919 - 1379	mg/L



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		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>		
<b>ROCHE COBAS C / MODULAR SYSTEMS</b>												
Albumin	Immunoturbidimetric (ALBT2)	**		**				**		**	mg/L	
Chloride (Cl)	Indirect ISE	**		**				**		**	mmol/L	
Glucose	Hexokinase (GLUC2)	**		**				**		**	mmol/L	
Glucose	Hexokinase (GLUC3)	60.4	48.3 - 72.5	38.2	30.6 - 45.8			3.35	2.68 - 4.02	2.12	1.70 - 2.54	mmol/L
Lactate Dehydrogenase (LDH)												
	IFCC (LDHI2)	**		**				**		**	µkat/L	
Lactic Acid	Enzymatic Colorimetric (LACT2)	**		**				**		**	mmol/L	
Potassium (K)	Indirect ISE	**		**				**		**	mmol/L	
Sodium (Na)	Indirect ISE	**		**				**		**	mmol/L	
Total Protein	Benzethonium Chloride (TPUC3)	25.1	20.1 - 30.1	57.5	46.0 - 69.0			251	201 - 301	575	460 - 690	mg/L

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		<b>X̄</b>	<b>&lt;R&gt;</b>	<b>X̄</b>	<b>&lt;R&gt;</b>		<b>X̄</b>	<b>&lt;R&gt;</b>	<b>X̄</b>	<b>&lt;R&gt;</b>	
<b>ROCHE HITACHI / MODULAR D &amp; P SYSTEMS</b>											
Chloride (Cl)	Indirect ISE	**		**		mEq/L	**		**		mmol/L
Glucose	Hexokinase	**		**		mg/dL	**		**		mmol/L
Lactate Dehydrogenase (LDH)	Enzymatic, IFCC	**		**		U/L	**		**		µkat/L
Lactic Acid	LOX / POD	**		**		mg/dL	**		**		mmol/L
Potassium (K)	Indirect ISE	**		**		mEq/L	**		**		mmol/L
Sodium (Na)	Indirect ISE	**		**		mEq/L	**		**		mmol/L
Total Protein	Benzethonium Chloride	**		**		mg/dL	**		**		mg/L

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		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>	
<b>ROCHE INTEGRA SYSTEMS</b>											
Albumin	Immunoturbidimetric	**		**		mg/dL	**		**		mg/L
Chloride (Cl)	Indirect ISE	**		**		mEq/L	**		**		mmol/L
Glucose	Hexokinase	**		**		mg/dL	**		**		mmol/L
Lactate Dehydrogenase (LDH)											
	IFCC	**		**		U/L	**		**		µkat/L
Lactic Acid	LOX / POD	**		**		mg/dL	**		**		mmol/L
Potassium (K)	Indirect ISE	**		**		mEq/L	**		**		mmol/L
Sodium (Na)	Indirect ISE	**		**		mEq/L	**		**		mmol/L
Total Protein	Benzethonium Chloride (TPUC3)	**		**		mg/dL	**		**		mg/L

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		<b>X̄</b>	<b>&lt;R&gt;</b>	<b>X̄</b>	<b>&lt;R&gt;</b>		<b>X̄</b>	<b>&lt;R&gt;</b>	<b>X̄</b>	<b>&lt;R&gt;</b>	
<b>SIEMENS ADVIA SYSTEMS</b>											
Glucose	Hexokinase (GLUH_3 / GLUH_c)	60.9	48.7 - 73.1	38.0	30.4 - 45.6	mg/dL	3.38	2.70 - 4.06	2.11	1.69 - 2.53	mmol/L
Glucose	Glucose Oxidase Trinder (GLUO / GLUO_c)	58.4	46.7 - 70.1	36.0	28.8 - 43.3	mg/dL	3.24	2.59 - 3.89	2.00	1.60 - 2.40	mmol/L
Lactate Dehydrogenase (LDH)	Lactate to Pyruvate (LDLP)	21.7	<20.0 - 26.6	59.6	47.7 - 71.5	U/L	0.36	<0.33 - 0.44	1.00	0.80 - 1.19	µkat/L
Lactate Dehydrogenase (LDH)	Pyruvate to Lactate (LDPL)	40.5	29.3 - 51.7	116	92.9 - 139	U/L	0.68	0.49 - 0.86	1.94	1.55 - 2.33	µkat/L
Lactic Acid	Colorimetric (1200 / 1650 / 1800)	**		**		mg/dL	**		**		mmol/L
Lactic Acid	Colorimetric (2400 / XPT)	**		**		mg/dL	**		**		mmol/L
Total Protein	Pyrogallol Red (UPRO_2)	26.9	21.5 - 32.3	50.8	40.6 - 60.9	mg/dL	269	215 - 323	508	406 - 609	mg/L

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		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>	
<b>SIEMENS ATELICA SYSTEMS</b>											
Glucose	Hexokinase (GuH_3)	**		**		mg/dL	**		**		mmol/L
Lactic Acid	Lactate to Pyruvate (Lac)	**		**		mg/dL	**		**		mmol/L
Total Protein	Pyrogallol Red (UPro)	**		**		mg/dL	**		**		mg/L

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		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>	
<b>SIEMENS BNII / PROSPEC</b>											
Albumin	Immunonephelometry	**		**		mg/dL	**		**		mg/L
Lactic Acid	Immunonephelometry	**		**		mg/dL	**		**		mmol/L
Total Protein	Immunonephelometry	**		**		mg/dL	**		**		mg/L

**LOT** SF24031A  
SF24032A

 2024-03-31

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scientific



For insert updates go to:  
[www.thermofisher.com/diagnostics](http://www.thermofisher.com/diagnostics)


# MAS<sup>®</sup> CSF

## LIQUID ASSAYED CEREBROSPINAL FLUID CONTROL

**IVD**

		<b>CON</b>					<b>SI</b>				
		SF24031A		SF24032A		<b>U</b>	SF24031A		SF24032A		<b>U</b>
		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>	
<b>SIEMENS DIMENSION SYSTEMS</b>											
Chloride (Cl)	Indirect IMT	**		**		mEq/L	**		**		mmol/L
Glucose	Hexokinase (GLUC)	**		**		mg/dL	**		**		mmol/L
Lactate Dehydrogenase (LDH)											
	Lactate to Pyruvate, IFCC (LDI)	**		**		U/L	**		**		µkat/L
Lactic Acid	Enzymatic (LA)	**		**		mg/dL	**		**		mmol/L
Potassium (K)	Indirect IMT	**		**		mEq/L	**		**		mmol/L
Sodium (Na)	Indirect IMT	**		**		mEq/L	**		**		mmol/L
Total Protein	Pyrogallol Red (UCFP)	**		**		mg/dL	**		**		mg/L

**LOT** SF24031A  
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## LIQUID ASSAYED CEREBROSPINAL FLUID CONTROL

**IVD**

		<b>CON</b>					<b>SI</b>				
		SF24031A		SF24032A		<b>U</b>	SF24031A		SF24032A		<b>U</b>
		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>	
<b>SIEMENS DIMENSION VISTA SYSTEMS</b>											
Albumin	Nephelometric (sALB)	**		**		mg/dL	**		**		mg/L
Chloride (Cl)	Indirect IMT	**		**		mEq/L	**		**		mmol/L
Glucose	Hexokinase (GLU)	56.9	45.5 - 68.3	35.5	28.4 - 42.6	mg/dL	3.16	2.53 - 3.79	1.97	1.58 - 2.36	mmol/L
Lactate Dehydrogenase											
	Lactate to Pyruvate, IFCC (LDI)	**		**		U/L	**		**		µkat/L
Lactic Acid	Enzymatic (LA)	**		**		mg/dL	**		**		mmol/L
Potassium (K)	Indirect IMT	**		**		mEq/L	**		**		mmol/L
Sodium (Na)	Indirect IMT	**		**		mEq/L	**		**		mmol/L
Total Protein	Pyrogallol Red (UCFP)	35.7	28.5 - 42.8	69.7	55.8 - 83.6	mg/dL	357	285 - 428	697	558 - 836	mg/L



**LOT** SF24031A  
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## LIQUID ASSAYED CEREBROSPINAL FLUID CONTROL

**IVD**

		<b>CON</b>					<b>SI</b>				
		SF24031A		SF24032A		<b>U</b>	SF24031A		SF24032A		<b>U</b>
		$\bar{x}$	<R>	$\bar{x}$	<R>		$\bar{x}$	<R>	$\bar{x}$	<R>	
<b>THERMO FISHER SCIENTIFIC KONELAB SYSTEMS</b>											
Chloride (Cl)	Direct ISE (Non U.S.)	**		**		mEq/L	**		**		mmol/L
Glucose	GOD-POD (Non U.S.)	**		**		mg/dL	**		**		mmol/L
Glucose	Hexokinase (Non U.S.)	**		**		mg/dL	**		**		mmol/L
Lactate Dehydrogenase (LDH)											
Lactate Dehydrogenase (LDH)	IFCC (Non U.S.)	**		**		U/L	**		**		µkat/L
Lactate Dehydrogenase (LDH)	SCE (Non U.S.)	**		**		U/L	**		**		µkat/L
Total Protein	Pyrogallol Red (Non U.S.)	**		**		g/dL	**		**		g/L

**Architect®**, **Aerose®**, Reg. TM: Abbott Laboratories, Inc., Abbott Park, IL  
**Advia®**, Reg. TM: Siemens Healthcare Diagnostics, Tarrytown, NY  
**Beckman Coulter® AU Series, Synchron® CX/LX Series**, Reg. TM: Beckman-Coulter Instruments, Inc., Brea, CA  
**Dimension®**, **Dimension Vista®**, Reg. TM: Siemens Healthcare Diagnostics, Glasgow, DE  
**Photometer®**, Reg. TM: Instrumentation Laboratory, Lexington, MA  
**Vitros®**, Reg. TM: Ortho-Clinical Diagnostics, Rochester, NY  
**Cobas®**, **Hitachi®**, **Modular®**, **Integra®**, Reg. TM: Roche Diagnostics, Indianapolis, IN

- \*\* **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.**
- \*\* Dati non disponibili. Per partecipare al processo di assegnazione dei valori, inviare tramite fax o e-mail le proprie informazioni di contatto al gruppo Value Assignment al numero 510-771-1539 o all'indirizzo mgc-va@thermofisher.com.
- \*\* Keine Daten verfügbar. Wenn Sie an unserem Wertzuweisungsprozess teilnehmen möchten, senden Sie Ihre Kontaktdaten bitte per Fax oder E-Mail an unsere Wertzuweisungsgruppe unter 510-771-1539 oder 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.
- \*\* Datos no disponibles. Si está interesado en participar en nuestro proceso de asignación de valor, envíe su información de contacto a nuestro grupo de asignación de valor por fax al 510-771-1539 o por correo electrónico a mgc-va@thermofisher.com.
- \*\* Data er ikke tilgængelige. Hvis du er interesseret i at deltage i vores værditildelingsproces, kan du sende dine kontaktoplysninger via fax eller e-mail til vores værditildelingsafdeling på 510-771-1539 eller mgc-va@thermofisher.com.
- \*\* Geen gegevens beschikbaar. Als u geïnteresseerd bent in deelname aan ons waardetoewijzingsproces, kunt u uw contactgegevens faxen of e-mailen naar onze Value Assignment-groep via 510-771-1539 of via mgc-va@thermofisher.com.
- \*\* Tietoja ei saatavilla. Jos olet kiinnostunut osallistumaan arvojen määrittämissiime, fakkaa tai lähetä sähköpostilla yhteystietosi Value Assignment -osastollemme numeroon 510 771 1539 tai osoitteeseen mgc-va@thermofisher.com.
- \*\* Δεν υπάρχουν διαθέσιμα δεδομένα. Εάν ενδιαφέρεστε να συμμετάσχετε στη διαδικασία καθορισμού τιμών που εφαρμόζουμε, στείλτε φάξ ή email με τις πληροφορίες επικοινωνίας σας στην ομάδα Καθορισμού τιμών της εταιρείας μας στο τηλ. 510-771-1539 ή στη διεύθυνση mgc-va@thermofisher.com.
- \*\* Data ikke tilgjengelig. Hvis du er interessert i å delta i vår verditilordningsprosess, kan du sende en faks eller e-post med din kontaktinformasjon til vår Value Assignment group på henholdsvis 510-771-1539 og mgc-va@thermofisher.com.
- \*\* Dane nie są dostępne. W razie zainteresowania udziałem w naszym procesie przypisywania wartości należy przesłać swoje dane kontaktowe do naszej grupy ds. przypisywania wartości faksem pod numer 510-771-1539 lub pocztą elektroniczną na adres mgc-va@thermofisher.com.
- \*\* Dados não disponíveis. Se pretender participar no nosso processo de atribuição de valores, envie as suas informações de contacto para o nosso grupo de atribuição de valores por fax, através do número 510-771-1539, ou por e-mail, para o endereço mgc-va@thermofisher.com.
- \*\* Данные отсутствуют. Если вы хотите принять участие в процедуре определения числовых параметров, сообщите ваши контактные данные нашей группе специалистов по определению числовых параметров по факсу 510-771-1539 или электронной почте mgc-va@thermofisher.com.
- \*\* 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 kontaktuppgifter till vår avdelning för analysvärden, telefonnummer +1 510-771-1539 eller mgc-va@thermofisher.com.
- \*\* Veri mevcut değildir. Değer atama sürecimize katılmak istiyorsanız lütfen iletişim bilgilerinizi 510-771-1539 numaralı telefona faks göndererek veya mgc-va@thermofisher.com adresine e-posta göndererek Değer Atama grubumuza iletin.
- \*\* 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，或发送邮件至 mgc-va@thermofisher.com。
- \*\* ご利用にならないデータです。値付けプロセスへの参加を希望される場合は、当社の値付け担当グループまでお客様の連絡先情報を Fax (510-771-1539) または電子メール (mgc-va@thermofisher.com) にてご連絡ください。
- \*\* Podaci nisu dostupni. Ako ste zainteresirani za sudjelovanje u našem postupku dodjeljivanja vrijednosti, pošaljite faks ili poruku e-pošte sa svojim kontaktnim podacima našoj grupi za dodjelu vrijednosti na telefon 510-771-1539, odnosno na adresu mgc-va@thermofisher.com.
- \*\* 無法取得資料。如果有興趣參與我們的赋值過程，請將您的聯絡方式以傳真或電子郵件寄至我們的赋值小組。傳真號碼 510-771-1539。電子郵件信箱 mgc-va@thermofisher.com。

**LOT**

Lot Number / Chargennummer / Numéro de lot / Numero di lotto / Número de lote / Partinummer / Partijnummer / Eränumero / Αριθμός παρτίδας / Lotnummer / Numer partii / Número de lote / Номер лота / Partinummer / Lot Numarası / 批号 / ロット番号 / Broj partije / 批號

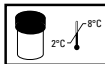


“Use By” date / Verwendbar bis / Date limite d'utilisation optimale / “Utilizzare entro” / Fecha límite de uso / “Anvendes før”-dato / Houdbaarheidsdatum / “Käyt. viim.”-päivämäärä / Ημερομηνία λήξης / Utløpsdato / Termin przydatności / Data de validade / Дата «Использовать до» / Utgångsdatum / “Son Kullanim” tarihi / 此日期前使用 / 使用期限 / Rok trajanja / 使用期限

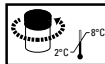
Refrigerated Temperature Limitation / Kühltemperaturbegrenzung / Limite de température de réfrigération / Limite di temperatura di refrigerazione / Limitación de la temperatura de refrigeración / Temperaturbegrensning – nedkølet / Bepörking in gekoelde toestand / Jääkaappilämpötilan rajat / Περιουσιός θερμοκρασίας ψύξης / Kjøletemperaturbegrensning / Ograniczenie temperatury chłodzenia / Limitação de Temperatura Refrigerada / Ограничение температуры заморозки / Kyltemperaturbegrensning / Soğutulmuş Sıcaklık Sınırlandırması / 冷藏温度限制 / 冷藏温度限界 / Ograničenje temperature za čuvanje u hladnjaku / 冷藏温度限制



Unopened Vial Stability: Refrigerated Temperature / Haltbarkeit des ungeöffneten Fläschchens: Kühltemperatur / Stabilité du flacon non ouvert : température de réfrigération / Stabilità provetta non aperta: a temperatura refrigerata / Estabilidad del vial sin abrir: temperatura refrigerada / Stabilitet i uåbnet hætteglas: Nedkølet / Stabilitet van ongeopend flesje: in gekoelde toestand / Avaamattoman ampullin stabiilius: jääkaappilämpötilassa / Σταθερότητα σφραγισμένου φιαλιδίου: θερμοκρασία ψύξης / Stabilitet i uåbnet tilstand: Kjøletemperatur / Stabiłność odczynników w nieotwartej fiolce: temperatura chłodzenia / Estabilidade de no frasco fechado: Temperatura refrigerada / Стабильность не вскрытого флакона: температура охлаждения / Hållbarhet vid öppnrad flaska: kyltd temperatur / Açılmamış Flakon Stabilesi: Soğutulmuş Sıcaklık / 未开封药瓶稳定性: 冷藏温度 / 未开封のバイアル安定性: 冷藏温度 / Stabilitnost neotvorene epruvete: temperatura za čuvanje u hladnjaku / 未开封瓶穩定性: 冷藏温度



Opened Vial Stability: Refrigerated Temperature / Haltbarkeit des geöffneten Fläschchens: Kühltemperatur / Stabilité du flacon ouvert : température de réfrigération / Stabilità provetta aperta: a temperatura refrigerata / Estabilidad del vial abierto: temperatura refrigerada / Stabilitet i åbnet hætteglas: Nedkølet / Stabilitet van geopend flesje: in gekoelde toestand / Avatun ampullin stabiilius: jääkaappilämpötilassa / Σταθερότητα ανοιγμένου φιαλιδίου: θερμοκρασία ψύξης / Stabilitet i åpnet tilstand: Kjøletemperatur / Stabiłność odczynników w otwartej fiolce: temperatura chłodzenia / Estabilidade de no frasco aberto: Temperatura refrigerada / Стабильность вскрытого флакона: температура охлаждения / Hållbarhet vid öppnrad flaska: kyltd temperatur / Açılmış Flakon Stabilesi: Soğutulmuş Sıcaklık / 已开封药瓶稳定性: 冷藏温度 / 已开封後のバイアル安定性: 冷藏温度 / Stabilitnost otvorene epruvete: temperatura za čuvanje u hladnjaku / 已开封瓶穩定性: 冷藏温度

**REF**

Catalog Number / Katalognummer / Catalogue N° / Numero di catalogo / Número de catálogo / Katalognummer / Catalogusnummer / Tuotenumero / Αριθμός καταλόγου / Katalognummer / Numer katalogowy / Referência / Номер по каталогу / Katalognummer / Katalog Numarası / 目录编号 / Каталог番号 / Kataloški broj / 料號



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Caution / Vorsicht / Attention / Attenzione / Atención / Forsigtig / Let op / Varoitus / Προσοχή / Advarsel / Przestroga / Cuidado / Осторожно / Viktigt / Dikkat / 注意 / 注意 / Oppez / 注意



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**IVD**

Biological risk / Biogefährdung / Matériel à risque biologique potentiel / Rischio biologico / Material potencialmente peligroso a nivel biológico / Biologisk risiko / Biologisch risico / Biologinen riski / Βιολογικός κίνδυνος / Biologisk risiko / Zagrożenie biologiczne / Risco biológico / Биологическая опасность / Biologisk risk / Biyolojik risk / 生物风险 / 生物学的リスク / Biološka opasnost / 生物風險

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CE Marking of Conformity / CE-Konformitätszeichen / Marquage CE de conformité / Marchio di conformità CE / Marca de conformidad CE / CE-mærkning / CE-conformiteitsmerk / CE-merkintä / Σήμανση συμμόρφωσης CE / CE-samsvarsmærking / Oznakowanie zgodności CE / Marca de Conformidade CE / Маркировка соответствия стандартам CE / CE-försäkran om överensstämmelse / CE Uyumluluk İşareti / CE 合格标志 / 適合の CE マーキング / CE oznaka sukladnosti / CE 符合性標示

**X̄**

Mean Value / Mittelwert / Valeur moyenne / Valore medio / Valor medio / Gennemsnitsværdi / Gemiddelde waarde / Keskiarvo / Μέση τιμή / Middelværdi / Wartość średnia / Valor médio / Среднее значение / Medelvärde / Ortalama Değer / 平均值 / 平均值 / Srednja vrijednost / 平均值

**<R>**

Expected Range / Erwarteter Bereich / Valeur attendue / Intervallo previsto / Intervallo previsto / Forventet område / Verwachte bereik / Odotettu vaihteluväli / Αναμενόμενο εύρος / Forventet område / Zakres wartości oczekiwanych / Intervallo esperado / Ожидаемый интервал / Förväntat intervall / Beklenen Aralık / 预期范围 / 予測範圍 / Očekivani raspon / 预期範圍

**U**

Units / Einheiten / Unités / Unità / Unidades / Enheder / Eenheden / Yksiköt / Μονάδες / Enheter / Jednostki / Unidades / Единицы / Enheter / Birimler / 单位 / 单位 / Jedinice / 單位

**CON**

Conventional Units / Konventionelle Einheiten / Unités conventionnelles / Unità convenzionali / Unidades convencionales / Konventionelle enheder / Conventionele eenheden / Perinteiset yksiköt / Συμβατικές μονάδες / Konventionelle enheter / Jednostki konwencjonalne / Unidades convencionais / Условные единицы / Konventionella enheter / Konvansiyonel Birimler / 常用单位 / 慣用单位 / Konvencionalne jedinice / 常規單位

**SI**

System International Units / SI-Einheiten / Système international d'unités / Unità sistema internazionale / Unidades del sistema internacional / SI-systemet / System International -eenheden / Kansainvälistet yksiköt / Μονάδες διεθνούς ουστηματος / SI-enheter / Jednostki w układzie SI / Unidades do Sistema Internacional / Единицы СИ / SI-enheter / Sistem Uluslararası Birimleri / 国际单位 / 國際單位系 / Medunarodni sustav jedinica / 系統國際單位

**U**

Constituent and Method / Bestandteil und Methode / Composant et méthode / Componente e metodo / Componente y método / Bestanddel og metode / Bestanddeel en methode / Aineosa ja menetelmä / Συστατικό και μέθοδος / Konstituent og metode / Skladnik i metoda / Componentes e método / Компонент и метод / Innehåll och metod / Bileşen ve Yöntem / 成分和方法 / 成分および測定法 / Sastojak i metoda / 成分與方法

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Per domande 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.

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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 bildirme 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。

Ako imate pitanja o ovoj obavijesti, u SAD-u nazovite odjel za tehničku podršku na broj 800-232-3342 ili 510-979-5417. Ako ste izvan SAD-a, obratite se lokalnoj podružnici ili distributeru.

若您對於此通知書有任何疑問，請致電 800-232-3342 或 510-979-5417 聯繫技術支援部門 (美國)。在美國以外地區，請聯繫您當地的子公司或是經銷商。

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☎ 800-232-3342  
sales.diagnostics.fmt@thermofisher.com

#### Asia Pacific

☎ +61 1800 333 110  
cdd.asia.info@thermofisher.com

#### Australia

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☎ 800-282-4075  
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