



25·09·22- NITE-AC-005  
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## Certificate of Accreditation

International Accreditation Japan (IAJapan) hereby accredits the following conformity assessment body as a Reference Material Producer of ASNITE accreditation program.

Accreditation Identification: ASNITE 0044 RMP

Name of Conformity Assessment Body: Tokyo Plant, FUJIFILM Wako Pure Chemical Corporation

Name of Legal Entity: FUJIFILM Wako Pure Chemical Corporation

Location of Conformity Assessment Body: 1633 Oazamatoba, Kawagoe-shi, Saitama, 350-1101  
JAPAN

Scope of Accreditation: as the following pages

Accreditation Requirement: ISO 17034:2016\*

\* The relevant accreditation requirements described in the Accreditation Scheme Document for ASNITE-R (General) are also applied.

Effective Date of Accreditation: 2023-03-04

Expiry Date of Accreditation: 2027-03-03

Date of Initial Accreditation: 2010-09-03

**ISHIGE Hiromi**

ISHIGE Hiromi

Chief Executive, International Accreditation Japan (IAJapan)

National Institute of Technology and Evaluation

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- International Accreditation Japan (IAJapan) is an RMP accreditation body which has signed MRAs of ILAC (International Laboratory Accreditation Cooperation) and APAC (Asia Pacific Accreditation Cooperation).
  - MRA requirements are, in addition to relevant international standards and guides, requirements for participation in proficiency testing programs, surveillance and reassessment, and the policy on the traceability of measurement for MRA purpose.
  - This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system in accordance with the recognized International Standard ISO 17034:2016.
  - The latest accreditation information is publicly available on IAJapan Website as an accreditation certificate.

Category: Chemical Reference Materials

Type: Certified Reference Material

Property Characterized: Concentration

The Approach Used to Assign a Property Value:

(\*\*1) Measurement by One or More Method(s) in a Single Laboratory (ISO 17034:2016 7.12.3 NOTE 1 b), d)

(\*\*2) Characterization Based on Mass or Volume of Ingredients Used in the Preparation of the Reference Material (ISO 17034:2016 7.12.3 NOTE 1 e))

Fixed Scopes/Flexible Scopes: Fixed Scopes

Sub-category	Property	Range of Property Value	Range of Expanded Uncertainty (Level of Confidence Approximately 95 %) ( $k=2$ )	Characterization Technique	Effective Date of Accreditation
Inorganic Reference Material High Purity Inorganic Material (Reference Materials for Volumetric Analysis) (**1)	Amidosulfuric Acid (Purity)	$\geq 99.90 \%$	$\geq 0.03 \%$	Potentiometric titrimetry	2023.3.4
	Potassium Hydrogen Phthalate (Purity)	99.95 % to 100.05 %	$\geq 0.03 \%$	Potentiometric titrimetry	
	Sodium Oxalate (Purity)	$\geq 99.95 \%$	$\geq 0.05 \%$	Potentiometric titrimetry	
	Sodium Carbonate (Purity)	$\geq 99.95 \%$	$\geq 0.03 \%$	Potentiometric titrimetry	
	Potassium Dichromate (Purity)	$\geq 99.98 \%$	$\geq 0.03 \%$	Potentiometric titrimetry	
	Potassium Iodate (Purity)	$\geq 99.95 \%$	$\geq 0.04 \%$	Potentiometric titrimetry	
	Sodium Chloride (Purity)	$\geq 99.95 \%$	$\geq 0.06 \%$	Potentiometric titrimetry	
	Sodium Fluoride (Purity)	$\geq 99.90 \%$	$\geq 0.04 \%$	Gravimetric analysis	

Sub-category	Property	Range of Property Value	Range of Expanded Uncertainty (Level of Confidence Approximately 95 %) ( $k=2$ )	Characterization Technique	Effective Date of Accreditation
Organic Reference Material Pure Organic Compound (**1)	1,4-BTMSB-d <sub>4</sub> (Purity)	≥ 99.0 %	≥ 0.5 %	Quantitative NMR(*3)	2023.3.4
	DSS-d <sub>6</sub> (Purity)	91.9 % to 93.2 %	≥ 0.3 %	Quantitative NMR	
	Anilofos (Purity)	≥ 98.0 %	≥ 0.3 %	Quantitative NMR	
	DEP (Purity)	≥ 99.0 %	≥ 0.3 %	Quantitative NMR	
	DCMU (Purity)	≥ 98.0 %	≥ 0.3 %	Quantitative NMR	
	Diazinon (Purity)	≥ 99.0 %	≥ 0.3 %	Quantitative NMR	
	Diflubenzuron (Purity)	≥ 99.0 %	≥ 0.4 %	Quantitative NMR	
	Flutolanil (Purity)	≥ 98.0 %	≥ 0.9 %	Quantitative NMR	
	Malathion (Purity)	≥ 98.0 %	≥ 0.3 %	Quantitative NMR	
	MCP (Purity)	≥ 98.0 %	≥ 0.3 %	Quantitative NMR	
	Propyzamide (Purity)	≥ 98.0 %	≥ 0.4 %	Quantitative NMR	
	Pyributicarb (Purity)	≥ 99.0 %	≥ 0.3 %	Quantitative NMR	
	Silafluofen (Purity)	≥ 99.0 %	≥ 0.4 %	Quantitative NMR	
	Tiadinil (Purity)	≥ 98.0 %	≥ 0.3 %	Quantitative NMR and Freezing point depression method	
	Chlorfenapyr (Purity)	≥ 99.0 %	≥ 0.3 %	Quantitative NMR	
	CNP-amino (Purity)	≥ 97.0 %	≥ 0.5 %	Quantitative NMR	
	CAT (Purity)	≥ 99.0 %	≥ 0.4 %	Quantitative NMR	
Clothianidin (Purity)	≥ 99.0 %	≥ 0.4 %	Quantitative NMR		

Sub-category	Property	Range of Property Value	Range of Expanded Uncertainty (Level of Confidence Approximately 95 %) ( $k=2$ )	Characterization Technique	Effective Date of Accreditation
Organic Reference Material Pure Organic Compound (**1)	Fludioxonil (Purity)	$\geq 99.0 \%$	$\geq 0.3 \%$	Quantitative NMR and Freezing point depression method	2023.3.4
	Glyphosate (Purity)	$\geq 96.0 \%$	$\geq 0.6 \%$	Quantitative NMR	
	Isoprothiolane (Purity)	$\geq 99.0 \%$	$\geq 0.4 \%$	Quantitative NMR	
	Indanofan (Purity)	$\geq 99.0 \%$	$\geq 0.3 \%$	Quantitative NMR	
	Linuron (Purity)	$\geq 99.0 \%$	$\geq 0.4 \%$	Quantitative NMR and Freezing point depression method	
	Methomyl (Purity)	$\geq 98.0 \%$	$\geq 0.3 \%$	Quantitative NMR	
	Thiamethoxam (Purity)	$\geq 99.0 \%$	$\geq 0.3 \%$	Quantitative NMR	
	Thiacloprid (Purity)	$\geq 97.0 \%$	$\geq 0.3 \%$	Quantitative NMR	
	Tetraconazole (Purity)	$\geq 98.0 \%$	$\geq 0.3 \%$	Quantitative NMR	
	Tricyclazole (Purity)	$\geq 99.0 \%$	$\geq 0.3 \%$	Quantitative NMR and Freezing point depression method	
	Methyl Dimethyldithiocarbamate (Purity)	$\geq 98.0 \%$	$\geq 0.3 \%$	Quantitative NMR	
	MIPC (Purity)	$\geq 99.0 \%$	$\geq 0.3 \%$	Quantitative NMR	
	Dimethyl Sulfone (Purity)	$\geq 99.0 \%$	$\geq 0.5 \%$	Quantitative NMR	
	Maleic Acid (Purity)	$\geq 99.0 \%$	$\geq 0.4 \%$	Quantitative NMR	

Sub-category	Property	Range of Property Value	Range of Expanded Uncertainty (Level of Confidence Approximately 95 %) ( $k=2$ )	Characterization Technique	Effective Date of Accreditation
Organic Reference Material Pure Organic Compound (**2)	16 amino acid mixture standard solution				
	L-Aspartic Acid	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0026 $\mu\text{mol/mL}$	Gravimetric	2023.3.4
	L-Glutamic Acid	0.900 $\mu\text{mol/mL}$ ~ 1.100 $\mu\text{mol/mL}$	0.023 $\mu\text{mol/mL}$	Gravimetric	
	Sarcosine	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0032 $\mu\text{mol/mL}$	Gravimetric	
	L-Citrulline	0.900 $\mu\text{mol/mL}$ ~ 1.100 $\mu\text{mol/mL}$	0.005 $\mu\text{mol/mL}$	Gravimetric	
	DL-2-Aminobutyric Acid	0.4500 $\mu\text{mol/mL}$ ~ 0.5500 $\mu\text{mol/mL}$	0.0031 $\mu\text{mol/mL}$	Gravimetric	
	L-Cystine	0.900 $\mu\text{mol/mL}$ ~ 1.100 $\mu\text{mol/mL}$	0.005 $\mu\text{mol/mL}$	Gravimetric	
	L-Methionine	0.900 $\mu\text{mol/mL}$ ~ 1.100 $\mu\text{mol/mL}$	0.005 $\mu\text{mol/mL}$	Gravimetric	
	DL-3-Aminoisobutyric Acid	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0015 $\mu\text{mol/mL}$	Gravimetric	
	4-Aminobutyric Acid	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0016 $\mu\text{mol/mL}$	Gravimetric	
	2-Aminoethanol	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0019 $\mu\text{mol/mL}$	Gravimetric	
	5-Hydroxy-DL-Lysine	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0013 $\mu\text{mol/mL}$	Gravimetric	
	1-Methyl-L-Histidine	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0043 $\mu\text{mol/mL}$	Gravimetric	
	3-Methyl-L-Histidine	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0019 $\mu\text{mol/mL}$	Gravimetric	
	L-Anserine	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0040 $\mu\text{mol/mL}$	Gravimetric	
	L-Carnosine	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0037 $\mu\text{mol/mL}$	Gravimetric	
L-Hydroxyproline	0.1800 $\mu\text{mol/mL}$ ~ 0.2200 $\mu\text{mol/mL}$	0.0030 $\mu\text{mol/mL}$	Gravimetric		

Sub-category	Property	Range of Property Value	Range of Expanded Uncertainty (Level of Confidence Approximately 95 %) ( $k=2$ )	Characterization Technique	Effective Date of Accreditation
Organic Reference Material Pure Organic Compound (**2)	15 amino acid mixture standard solution				
	Taurine	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.044 $\mu\text{mol/mL}$	Gravimetric	2023.3.4
	L-Threonine	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.035 $\mu\text{mol/mL}$	Gravimetric	
	L-Serine	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.035 $\mu\text{mol/mL}$	Gravimetric	
	Glycine	9.00 $\mu\text{mol/mL}$ ~ 11.00 $\mu\text{mol/mL}$	0.07 $\mu\text{mol/mL}$	Gravimetric	
	L-Alanine	9.00 $\mu\text{mol/mL}$ ~ 11.00 $\mu\text{mol/mL}$	0.08 $\mu\text{mol/mL}$	Gravimetric	
	L-Valine	9.00 $\mu\text{mol/mL}$ ~ 11.00 $\mu\text{mol/mL}$	0.08 $\mu\text{mol/mL}$	Gravimetric	
	L-Isoleucine	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.036 $\mu\text{mol/mL}$	Gravimetric	
	L-Leucine	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.036 $\mu\text{mol/mL}$	Gravimetric	
	L-Tyrosine	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.038 $\mu\text{mol/mL}$	Gravimetric	
	L-Phenylalanine	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.035 $\mu\text{mol/mL}$	Gravimetric	
	L-Ornithine	2.250 $\mu\text{mol/mL}$ ~ 2.750 $\mu\text{mol/mL}$	0.023 $\mu\text{mol/mL}$	Gravimetric	
	L-Lysine	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.037 $\mu\text{mol/mL}$	Gravimetric	
	L-Histidine	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.033 $\mu\text{mol/mL}$	Gravimetric	
	L-Arginine	2.250 $\mu\text{mol/mL}$ ~ 2.750 $\mu\text{mol/mL}$	0.020 $\mu\text{mol/mL}$	Gravimetric	
L-Proline	4.500 $\mu\text{mol/mL}$ ~ 5.500 $\mu\text{mol/mL}$	0.040 $\mu\text{mol/mL}$	Gravimetric		

Sub-category	Property	Range of Property Value	Range of Expanded Uncertainty (Level of Confidence Approximately 95 %) ( $k=2$ )	Characterization Technique	Effective Date of Accreditation
Organic Reference Material Pure Organic Compound (**2)	18 amino acid mixture standard solution				
	L-Aspartic Acid	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0011 $\mu\text{mol/mL}$	Gravimetric	2023.3.4
	L-Threonine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0017 $\mu\text{mol/mL}$	Gravimetric	
	L-Serine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0012 $\mu\text{mol/mL}$	Gravimetric	
	L-Glutamic Acid	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0048 $\mu\text{mol/mL}$	Gravimetric	
	Glycine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0017 $\mu\text{mol/mL}$	Gravimetric	
	L-Alanine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric	
	L-Valine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0017 $\mu\text{mol/mL}$	Gravimetric	
	L-Cystine	0.1125 $\mu\text{mol/mL}$ ~ 0.1375 $\mu\text{mol/mL}$	0.0007 $\mu\text{mol/mL}$	Gravimetric	
	L-Methionine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0018 $\mu\text{mol/mL}$	Gravimetric	
	L-Isoleucine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0020 $\mu\text{mol/mL}$	Gravimetric	
	L-Leucine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0018 $\mu\text{mol/mL}$	Gravimetric	
	L-Tyrosine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric	
	L-Phenylalanine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0020 $\mu\text{mol/mL}$	Gravimetric	
	Ammonium Chloride	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0019 $\mu\text{mol/mL}$	Gravimetric	
	L-Lysine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0017 $\mu\text{mol/mL}$	Gravimetric	
	L-Histidine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0016 $\mu\text{mol/mL}$	Gravimetric	
L-Arginine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0017 $\mu\text{mol/mL}$	Gravimetric		
L-Proline	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0019 $\mu\text{mol/mL}$	Gravimetric		

Sub-category	Property	Range of Property Value	Range of Expanded Uncertainty (Level of Confidence Approximately 95 %) ( $k=2$ )	Characterization Technique	Effective Date of Accreditation
Organic Reference Material Pure Organic Compound (**2)	12 amino acid mixture standard solution				
	4-Aminobutyric Acid	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric	2023.3.4
	2-Aminoethanol	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0017 $\mu\text{mol/mL}$	Gravimetric	
	Ammonium Chloride	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0039 $\mu\text{mol/mL}$	Gravimetric	
	5-Hydroxy-DL-lysine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric	
	L-Ornithine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0013 $\mu\text{mol/mL}$	Gravimetric	
	L-Lysine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0012 $\mu\text{mol/mL}$	Gravimetric	
	1-Methyl-L-histidine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0018 $\mu\text{mol/mL}$	Gravimetric	
	L-Histidine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0017 $\mu\text{mol/mL}$	Gravimetric	
	3-Methyl-L-histidine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0019 $\mu\text{mol/mL}$	Gravimetric	
	L-Anserine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0024 $\mu\text{mol/mL}$	Gravimetric	
	L-Carnosine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric	
L-Arginine	0.2250 $\mu\text{mol/mL}$ ~ 0.2750 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric		

Sub-category	Property	Range of Property Value	Range of Expanded Uncertainty (Level of Confidence Approximately 95 %) ( $k=2$ )	Characterization Technique	Effective Date of Accreditation
Organic Reference Material Pure Organic Compound (**2)	25 amino acid mixture standard solution				
	<i>O</i> -Phospho-L-serine	0.1125 $\mu\text{mol/mL}$ ~0.1375 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric	2023.3.4
	Taurine	0.1125 $\mu\text{mol/mL}$ ~0.1375 $\mu\text{mol/mL}$	0.0012 $\mu\text{mol/mL}$	Gravimetric	
	<i>O</i> -Phosphorylethanolamine	0.1125 $\mu\text{mol/mL}$ ~0.1375 $\mu\text{mol/mL}$	0.0013 $\mu\text{mol/mL}$	Gravimetric	
	Urea	4.500 $\mu\text{mol/mL}$ ~5.500 $\mu\text{mol/mL}$	0.044 $\mu\text{mol/mL}$	Gravimetric	
	L-Aspartic Acid	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0019 $\mu\text{mol/mL}$	Gravimetric	
	L-Threonine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0019 $\mu\text{mol/mL}$	Gravimetric	
	L-Serine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0013 $\mu\text{mol/mL}$	Gravimetric	
	L-Glutamic Acid	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0054 $\mu\text{mol/mL}$	Gravimetric	
	Sarcosine	0.5625 $\mu\text{mol/mL}$ ~0.6875 $\mu\text{mol/mL}$	0.0075 $\mu\text{mol/mL}$	Gravimetric	
	Glycine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0016 $\mu\text{mol/mL}$	Gravimetric	
	L-Alanine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0017 $\mu\text{mol/mL}$	Gravimetric	
	L-Citrulline	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0016 $\mu\text{mol/mL}$	Gravimetric	
	DL-2-Aminoisobutyric Acid	0.1125 $\mu\text{mol/mL}$ ~0.1375 $\mu\text{mol/mL}$	0.0009 $\mu\text{mol/mL}$	Gravimetric	
	L-Valine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric	
	L-Cystine	0.1125 $\mu\text{mol/mL}$ ~0.1375 $\mu\text{mol/mL}$	0.0009 $\mu\text{mol/mL}$	Gravimetric	
	L-Methionine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0021 $\mu\text{mol/mL}$	Gravimetric	
	L-Cystathionine	0.1125 $\mu\text{mol/mL}$ ~0.1375 $\mu\text{mol/mL}$	0.0007 $\mu\text{mol/mL}$	Gravimetric	
	L-Isoleucine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0017 $\mu\text{mol/mL}$	Gravimetric	
	L-Leucine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0015 $\mu\text{mol/mL}$	Gravimetric	
	L-Tyrosine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric	
	L-Phenylalanine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0014 $\mu\text{mol/mL}$	Gravimetric	
	$\beta$ -Alanine	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0018 $\mu\text{mol/mL}$	Gravimetric	
DL-3-Aminoisobutyric Acid	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0020 $\mu\text{mol/mL}$	Gravimetric		
L-Hydroxyproline	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0029 $\mu\text{mol/mL}$	Gravimetric		
L-Proline	0.2250 $\mu\text{mol/mL}$ ~0.2750 $\mu\text{mol/mL}$	0.0029 $\mu\text{mol/mL}$	Gravimetric		

## Fixed Scopes/Flexible Scopes: Flexible Scopes

Sub-category	Property	Range of Property Value	Range of Expanded Uncertainty (Level of Confidence Approximately 95 %) ( $k=2$ )	Characterization Technique	Effective Date of Accreditation
Inorganic Reference Material High Purity Inorganic Material	Metallic Standard Solution (Single Component) (**1)	100 mg/kg~ 1000 mg/kg	-	Chelatometric Titrimetry Comparison with NIST(*1)-CRM.	2023.3.4
				ICP-OES(*2) Comparison with NIST(*1)-CRM.	2024.2.29
	Inorganic Standard Solution (Single and Multi-Component) (**2)	-	-	Gravimetric preparation	2025.3.27
Organic Reference Material Pure Organic Compound	Pure Organic Compound (Single Component) (**1)	-	-	Quantitative NMR( <sup>1</sup> H)	2025.3.27
	Organic Standard Solution (Single Component in NMR solvent) (**1)	-	-		
	Organic Standard Solution (Single Component, Multi-Component) (**2)	-	-	Gravimetric preparation	
	Pure Organic Compound (Purity), Organic Standard Solution (Single Component) (**1)	-	-	Quantitative NMR( <sup>19</sup> F)	2025.12.25

Note: Information on reference materials producible under the flexible scope of accreditation is available on the RMP's website (<https://www.fujifilm.com/ffwk/ja/about/sustainability/quality/temp>).

\*1 National Institute of Standard and Technology

\*2 Inductively coupled plasma optical emission spectrometry

\*3 Nuclear magnetic resonance

(End of Attachment)