

# Certified Reference Material



## Mutual Recognition Arrangement



## Mutual Recognition Arrangement

MRA/JCSS-certified products  
ASNITE-certified reference materials  
ISO/IEC 17025-certified Solution for titration

Third Edition

 Kanto Chemical Co., Inc.

# ISO & International Mutual Recognition Arrangement

The ISO/IEC 17025 is General requirements for the competence of testing and calibration laboratories. We are the first reagent manufacturer to acquire this certification in Japan(2000/10). The certification was issued by The Japan Accreditation Board for Conformity Assessment (JAB) that complies with International Mutual Recognition Arrangement (MRA).

## ISO/IEC 17025

General requirements for the competence of testing and calibration laboratories(International Standard).

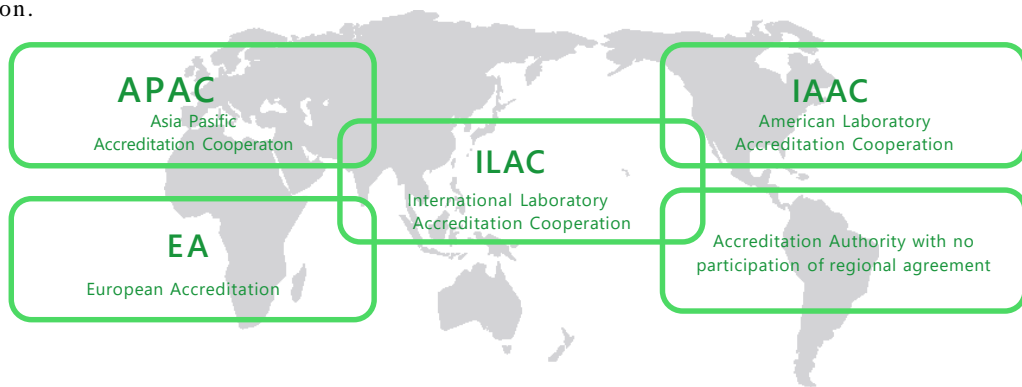
## ISO 17034

General requirements for the competence of reference material producers(International Standard).

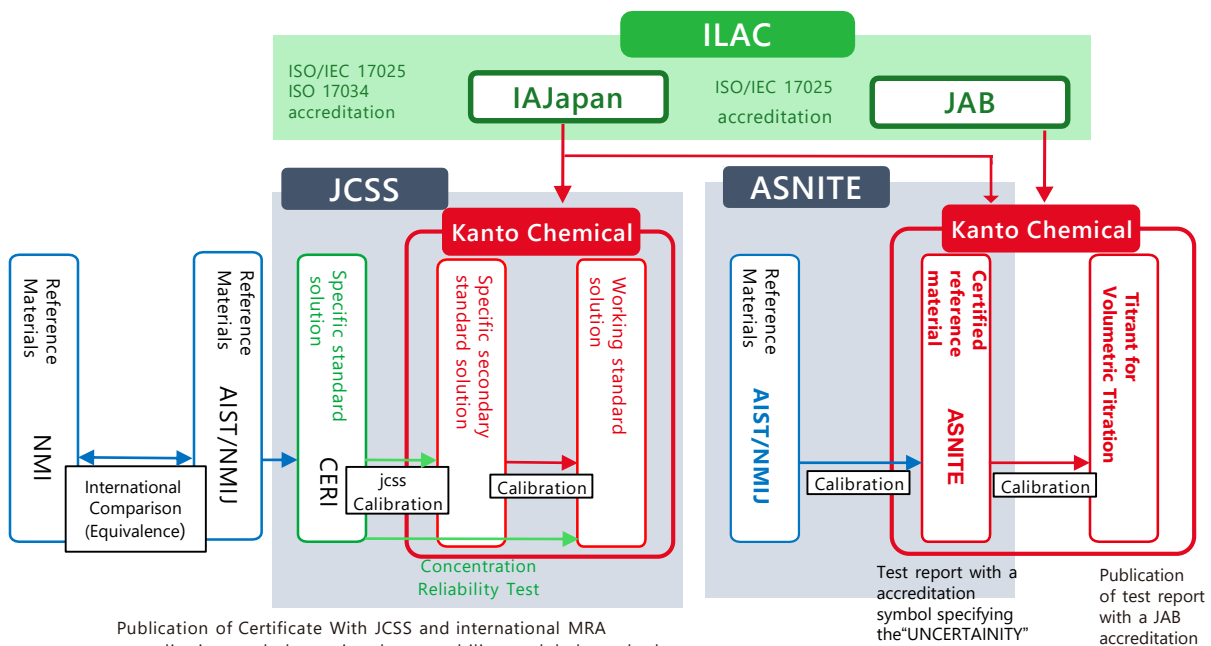
## Mutual Recognition Arrangement (MRA)

International Laboratory Accreditation Cooperation(ILAC) was established as an international organization to accredit laboratories and inspection facilities which perform testing and examination. The organization prepared ISO/IEC 17025 and also streamlined testing methods and operation manuals internationally among accreditation organizations.

ILAC provides MRA with the aim of OneStepTesting that means "a product tested once and accepted everywhere".ILAC authorizes laboratories and inspection facilities that their signing to MRA enables them to maintain the compatibility of the continuous international standard through stringent mutual evaluation.



## Traceability



Publication of Certificate With JCSS and international MRA accreditation symbol ensuring the traceability to global standards.

- NMI : National Metrology Institute
- AIST : National Institute of Advanced Industrial Science and Technology
- CERI : Chemicals Evaluation and Research Institute, Japan
- JCSS : Japan Calibration Service System
- ASNITE : Accreditation System of National Institute of Technology and Evaluation

NITE : National Institute of Technology and Evaluation

IAJapan : International Accreditation Japan

JAB : Japan Accreditation Board

## MRA/JCSS-certified product

Japan Calibration System Service(JCSS) consists of the National standards provision system and the Calibration laboratory accreditation system. As a JCSS-accredited corporation, we supply various kinds of standard solutions traceable to the national measurement standards of pH, metal, non-metal and volatile organics and issue certificates with "JCSS" accreditation symbol.

We are also accredited by IAJapan\*, that is an affiliate of MRA between ILAC( International Laboratory Accreditation Cooperation) and APAC(Asia Pacific Accreditation Cooperation) the logo, therefore, is internationally recognized.

\* IAJapan: An independent organization to manage accredited programs of corporations practicing tests and calibrations in National Institute of Technology and Evaluation (NITE)

### Characteristic

We provide Calibration certificate with a JCSS accreditation symbol specifying the "UNCERTAINTY" that proves the accuracy of our test results clearly and ensuring the traceability to global standards.



※ Calibration certificate with a JCSS accreditation is attached to each product.

### Outline of Accreditation

Product	Number of items	Number of product	Accredited Corporation
pH standard solution (first class)	2	2	Isehara Factory Accredited No.0015
pH standard solution (second class)	6	12	
Metal standard solution	36	63	Soka factory Accredited No.0014
Metal mixture standard solution	1	1	
Non-metallic ion standard solution	12	16	
Organic compound standard solution	3	3	
Organic compound mixture standard solution	5	5	



Our Soka Factory uses JIS Q 17025 (ISO/IEC 17025) and JIS Q 17034 (ISO 17034), and accredited by JCSS which is operated under ISO/IEC 17011 for accreditation scheme. IAJapan which is operating JCSS is a signatory of APLAC and ILAC. Our Soka Factory is an accredited business establishment for JCSS with compatibility for International MRA. Our accredited number is 0014.



Our Isehara Factory uses JIS Q 17025 (ISO/IEC 17025) and JIS Q 17034 (ISO 17034), and accredited by JCSS which is operated under ISO/IEC 17011 for accreditation scheme. IAJapan which is operating JCSS is a signatory of APLAC and ILAC. Our Isehara Factory is an accredited business establishment for JCSS with compatibility for International MRA. Our accredited number is 0015.

● Product List

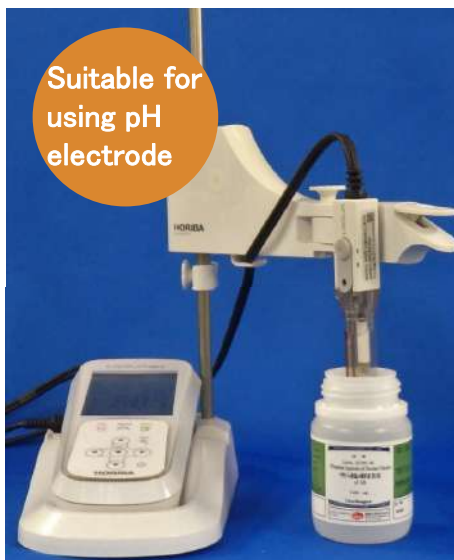
pH standard solution

Cat.No.	Name	pH	Package	JCSS
32975-23	Phthalate pH standard solution, pH 4.008	4.008	100 mL	●
32976-23	Phosphate equimolal pH standard solution, pH 6.865	6.865	100 mL	●
32797-08	Oxalate pH standard solution, pH 1.68	1.68	500 mL	●
32798-08	Phthalate pH standard solution, pH 4.01	4.01	500 mL	●
32799-08	Phosphate equimolal pH standard solution, pH 6.86	6.86	500 mL	●
32800-08	Phosphate pH standard solution, pH 7.41	7.41	500 mL	●
32801-08	Tetraborate pH standard solution, pH 9.18	9.18	500 mL	●
32802-08	Carbonate pH standard solution, pH 10.01	10.01	500 mL	●

pH standard solution -single use package-

Cat.No.	Name	pH	Package	JCSS
32798-96	Phthalate pH standard solution, pH 4.01	4.01	100 mL×20	●
32799-96	Phosphate equimolal pH standard solution, pH 6.86	6.86	100 mL×20	●
32801-96	Tetraborate pH standard solution, pH 9.18	9.18	100 mL×20	●

Packing Style -single use package-



pH standard solution -large size package-

Cat.No.	Name	pH	Package	JCSS
32798-97	Phthalate pH standard solution, pH 4.01	4.01	2 L	●
32799-97	Phosphate equimolal pH standard solution, pH 6.86	6.86	2 L	●
32801-97	Tetraborate pH standard solution, pH 9.18	9.18	2 L	●

Packing Style-large size package-



Metal standard solution

Cat.No.	Name	Elem.	Component	Coc. (mg/L)	Package	JCSS
37812-2B	Silver standard solution	Ag	AgNO <sub>3</sub> · HNO <sub>3</sub> (0.5 mol/L) solution	1000	100 mL	●
01783-1B	Aluminium standard solution	Al	Al · HNO <sub>3</sub> (0.2 mol/L) solution	1000	250 mL	●
01783-2B	Aluminium standard solution	Al	Al · HNO <sub>3</sub> (0.2 mol/L) solution	1000	100 mL	●
01178-1B	Arsenic standard solution	As	As <sub>2</sub> O <sub>3</sub> · NH <sub>4</sub> Cl (0.2%) ,HCl acid solution	1000	100 mL	●
01177-1B	Arsenic standard solution	As	As <sub>2</sub> O <sub>3</sub> · NH <sub>4</sub> Cl (0.02%) ,HCl acid solution	100	100 mL	●
17595-1B	Gold standard solution	Au	Au · HCl (1 mol/L) solution, trace HNO <sub>3</sub>	1000	100 mL	●
04889-1B	Boron standard solution	B	H <sub>3</sub> BO <sub>3</sub> Water solution	1000	100 mL	●
04865-1B	Barium standard solution	Ba	BaCO <sub>3</sub> · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
04864-1B	Beryllium standard solution	Be	Be · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
04881-1B	Bismuth standard solution	Bi	Bi · HNO <sub>3</sub> (0.5 mol/L) solution	1000	100 mL	●
04882-1B	Bismuth standard solution	Bi	Bi · HNO <sub>3</sub> (0.5 mol/L) solution	100	100 mL	●
07998-1B	Calcium standard solution 1	Ca	CaCO <sub>3</sub> · HNO <sub>3</sub> (0.1 mol/L) solution	1000	250 mL	●



## Metal standard solution

Cat.No.	Name	Elem.	Component	Coc. (mg/L)	Package	JCSS
07998-2B	Calcium standard solution 1	Ca	CaCO <sub>3</sub> · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
07993-1B	Cadmium standard solution	Cd	Cd · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
07994-1B	Cadmium standard solution	Cd	Cd · HNO <sub>3</sub> (0.1 mol/L) solution	100	100 mL	●
08006-1B	Cerium standard solution	Ce	Ce (NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
08040-1B	Cobalt standard solution	Co	Co · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
08041-1B	Cobalt standard solution	Co	Co · HNO <sub>3</sub> (0.1 mol/L) solution	100	100 mL	●
08037-1B	Chromium standard solution 1	Cr(VI)	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> · HNO <sub>3</sub> (0.01 mol/L) solution	1000	250 mL	●
08037-2B	Chromium standard solution 1	Cr(VI)	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> · HNO <sub>3</sub> (0.01 mol/L) solution	1000	100 mL	●
08038-1B	Chromium standard solution 1	Cr(VI)	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> · HNO <sub>3</sub> (0.01 mol/L) solution	100	100 mL	●
08037-3B	Chromium standard solution 2	Cr(III)	Cr(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
08007-1B	Cesium standard solution	Cs	CsCl Water solution	1000	100 mL	●
08046-1B	Copper standard solution	Cu	Cu · HNO <sub>3</sub> (0.1 mol/L) solution	1000	250 mL	●
08046-2B	Copper standard solution	Cu	Cu · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
08047-1B	Copper standard solution	Cu	Cu · HNO <sub>3</sub> (0.1 mol/L) solution	100	100 mL	●
11310-1B	Dysprosium standard solution	Dy	Dy(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
14553-1B	Erbium standard solution	Er	Er(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
14576-1B	Europium standard solution	Eu	Eu(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
20247-1B	Iron standard solution	Fe	Fe · HNO <sub>3</sub> (0.2 mol/L) solution	1000	250 mL	●
20247-2B	Iron standard solution	Fe	Fe · HNO <sub>3</sub> (0.2 mol/L) solution	1000	100 mL	●
20248-1B	Iron standard solution	Fe	Fe · HNO <sub>3</sub> (0.2 mol/L) solution	100	100 mL	●
17591-1B	Gallium standard solution	Ga	Ga · HNO <sub>3</sub> (0.2 mol/L) solution	1000	100 mL	●
17590-1B	Gadolinium standard solution	Gd	Gd(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
17592-1B	Germanium standard solution	Ge	Ge · KOH (0.2 mol/L) solution	1000	100 mL	
18155-1B	Hafnium standard solution	Hf	Hf · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	
25828-1B	Mercury standard solution	Hg	HgCl <sub>2</sub> · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
18612-1B	Holmium standard solution	Ho	Ho(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
20241-1B	Indium standard solution	In	In · HNO <sub>3</sub> (0.2 mol/L) solution	1000	100 mL	●
19604-1A	Iridium standard solution	Ir	Ir · HCl (10%~20%) solution	1000	100 mL	
32832-1B	Potassium standard solution	K	KCl Water solution	1000	250 mL	●

## Metal standard solution

Cat.No.	Name	Elem.	Component	Coc. (mg/L)	Package	JCSS
32832-2B	Potassium standard solution	K	KCl Water solution	1000	100 mL	●
24237-1B	Lanthanum standard solution	La	La(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
24245-1B	Lithium standard solution 1	Li	Li <sub>2</sub> CO <sub>3</sub> · HNO <sub>3</sub> (0.01 mol/L) solution	1000	100 mL	●
24253-1B	Lutetium standard solution	Lu	Lu(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
25840-1B	Magnesium standard solution 1	Mg	Mg · HNO <sub>3</sub> (0.1 mol/L) solution	1000	250 mL	●
25840-2B	Magnesium standard solution 1	Mg	Mg · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
25824-1B	Manganese standard solution	Mn	Mn · HNO <sub>3</sub> (0.1 mol/L) solution	1000	250 mL	●
25824-2B	Manganese standard solution	Mn	Mn · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
25825-1B	Manganese standard solution	Mn	Mn · HNO <sub>3</sub> (0.1 mol/L) solution	100	100 mL	●
25883-1B	Molybdenum standard solution	Mo	Mo · HCl (0.4 mol/L) , HNO <sub>3</sub> (0.2 mol/L) solution	1000	100 mL	●
37821-1B	Sodium standard solution	Na	NaCl Water solution	1000	250 mL	●
37821-2B	Sodium standard solution	Na	NaCl Water solution	1000	100 mL	●
28580-1B	Niobium standard solution	Nb	Nb · HF (1 mol/L) solution	1000	100 mL	
28574-1B	Neodymium standard solution	Nd	Nd(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
28577-1B	Nickel standard solution	Ni	Ni · HNO <sub>3</sub> (0.1 mol/L) solution	1000	250 mL	●
28577-2B	Nickel standard solution	Ni	Ni · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
28578-1B	Nickel standard solution	Ni	Ni · HNO <sub>3</sub> (0.1 mol/L) solution	100	100 mL	●
31043-1B	Osmium standard solution	Os	(NH <sub>4</sub> ) <sub>2</sub> OsCl <sub>6</sub> · HCl (2.5 mol/L) solution	1000	100 mL	
32958-96	Phosphorus standard solution	PO <sub>4</sub> -P	KH <sub>2</sub> PO <sub>4</sub> Water solution	1000	100 mL	●
24239-1B	Lead standard solution	Pb	Pb · HNO <sub>3</sub> (0.1 mol/L) solution	1000	250 mL	●
24239-2B	Lead standard solution	Pb	Pb · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
24240-1B	Lead standard solution	Pb	Pb · HNO <sub>3</sub> (0.1 mol/L) solution	100	100 mL	●
32788-1B	Palladium standard solution	Pd	Pd · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
32868-1B	Praseodymium standard solution	Pr	Pr(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
32818-1B	Platinum standard solution	Pt	Pt · HCl (1 mol/L) solution, trace HNO <sub>3</sub>	1000	100 mL	
36521-1B	Rubidium standard solution	Rb	RbCl Water solution	1000	100 mL	●
36516-1B	Rhenium standard solution	Re	Re · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	
36518-1B	Rhodium standard solution	Rh	RhCl <sub>3</sub> · HCl (1 mol/L) solution	1000	100 mL	
19625-1A	Ruthenium standard solution	Ru	Ru · HCl (10%~20%) solution	1000	100 mL	

## Metal standard solution

Cat.No.	Name	Elem.	Component	Coc. (mg/L)	Package	JCSS
37377-96	Sulfur standard solution	S	H <sub>2</sub> SO <sub>4</sub> Water solution	1000	100 mL	
01803-1B	Antimony standard solution	Sb	Sb <sub>2</sub> O <sub>3</sub> · HCl (2.5 mol/L) solution	1000	100 mL	●
01804-1B	Antimony standard solution	Sb	Sb <sub>2</sub> O <sub>3</sub> · HCl (2.5 mol/L) solution	100	100 mL	●
37807-1B	Scandium standard solution	Sc	Sc(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
37808-1B	Selenium standard solution	Se	Se · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
37040-1B	Silicon standard solution	Si	Si · KOH (0.1 mol/L) solution	1000	100 mL	●
37806-1B	Samarium standard solution	Sm	Sm(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
40879-1B	Tin standard solution	Sn	Sn · HCl (2.5 mol/L) solution	1000	250 mL	●
40879-2B	Tin standard solution	Sn	Sn · HCl (2.5 mol/L) solution	1000	100 mL	●
37876-1B	Strontium standard solution	Sr	SrCO <sub>3</sub> · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
48055-1B	Tantalum standard solution	Ta	Ta · HF (1 mol/L) solution, trace HNO <sub>3</sub>	1000	100 mL	
40857-1B	Terbium standard solution	Tb	Tb(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
40856-1B	Tellurium standard solution	Te	Te · HCl (1 mol/L) solution	1000	100 mL	●
40882-1B	Titanium standard solution	Ti	Ti · H <sub>2</sub> SO <sub>4</sub> (2 mol/L) solution	1000	100 mL	
40871-1B	Thallium standard solution	Tl	TlNO <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	●
40872-1B	Thulium standard solution	Tm	Tm(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
44068-1B	Vanadium standard solution	V	V · HCl (0.2 mol/L) , HNO <sub>3</sub> (0.4 mol/L) solution	1000	100 mL	●
40965-1B	Tungsten standard solution	W	Na <sub>2</sub> WO <sub>4</sub> Water solution	1000	100 mL	
47012-1B	Yttrium standard solution	Y	Y(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
47011-1B	Ytterbium standard solution	Yb	Yb(NO <sub>3</sub> ) <sub>3</sub> · HNO <sub>3</sub> (1 mol/L) solution	1000	100 mL	
48096-1B	Zinc standard solution	Zn	Zn · HNO <sub>3</sub> (0.1 mol/L) solution	1000	250 mL	●
48096-2B	Zinc standard solution	Zn	Zn · HNO <sub>3</sub> (0.1 mol/L) solution	1000	100 mL	●
48097-1B	Zinc standard solution	Zn	Zn · HNO <sub>3</sub> (0.1 mol/L) solution	100	100 mL	●
48003-1B	Zirconium standard solution	Zr	Zr · H <sub>2</sub> SO <sub>4</sub> (0.3 mol/L) solution, trace HNO <sub>3</sub> , HF	1000	100 mL	●

## Multi-element standard solution

Cat.No.	Name	Component	Coc. (mg/L)	Solvent	Package	JCSS
25875-96	Metals standard solution (14 elements mix)	Cd	5	0.1 mol/L HNO <sub>3</sub>	100 mL	●
		As, Cr, Mn, Pb, Se	10			
		Al, B, Ca, Cu, Fe, Mg, Na, Zn	100			
20277-23	ICP standard solution A (4 elements mix)	Al, Bi, Ni, Pb	100	1 mol/L HNO <sub>3</sub>	100 mL	



## Multi-element standard solution

Cat.No.	Name	Component	Coc. (mg/L)	Solvent	Package	JCSS
20278-23	ICP standard solution B (4 elements mix)	B, Cd, Cr, Zn	100	0.1 mol/L HNO <sub>3</sub>	100 mL	
20279-23	ICP standard solution C (4 elements mix)	Co, Cu, Fe, Mn	100	0.1 mol/L HNO <sub>3</sub>	100 mL	
20280-23	ICP standard solution D (6 elements mix)	Ba, Ca, K, Mg, Na, Sr	100	0.5 mol/L HNO <sub>3</sub> , trace HCl	100 mL	
20260-23	ICP standard solution F (16 elements mix)	Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Sc, Tb, Tm, Yb, Y	10	5% HNO <sub>3</sub>	100 mL	
20261-23	ICP standard solution G (10 elements mix)	Au, Hf, Ir, Pd, Pt, Rh, Ru, Sb, Sn, Te	10	1% HNO <sub>3</sub> , 10% HCl	100 mL	
20262-23	ICP standard solution H (25 elements mix)	Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, K, Li, Mg, Mn, Na, Ni, Rb, Pb, Se, Sr, V, Zn	10	2% HNO <sub>3</sub>	100 mL	
20263-23	ICP standard solution I (6 elements mix)	Ce, Co, Li, Mg, Tl, Y	1	2% HNO <sub>3</sub>	100 mL	
20264-23	ICP standard solution J (7 elements mix)	As, Cd, Pb Hg Co, Ni, V	10 50 100	5% HNO <sub>3</sub>	100 mL	
25937-23	Metals standard solution I (8 elements mix)	Cd, Cr, Cu, Fe, Mn Na, Pb, Zn	100	0.1 mol/L HNO <sub>3</sub>	100 mL	
25939-23	Metals standard solution III (8 elements mix)	Cd Co, Cu, Fe, Mn, Ni, Pb, Zn	8 10	0.1 mol/L HNO <sub>3</sub>	100 mL	
25940-23	Metals standard solution IV (3 elements mix)	Cr, V Mo	10 20	0.1 mol/L HNO <sub>3</sub> , trace H <sub>2</sub> SO <sub>4</sub> , K	100 mL	
25941-23	Metals standard solution V (10 elements mix)	Al, As, B, Cd, Cr, Cu, Mn, Pb, Se, Zn	100	0.1 mol/L HNO <sub>3</sub>	100 mL	
26013-23	Metals standard solution VI (3 elements mix)	Sc, Tl, Y	100	0.1 mol/L HNO <sub>3</sub>	100 mL	
26014-23	Metals standard solution VII (12 elements mix)	Al, B, Ca, Cd, Cr, Cu, Fe, Mg, Mn, Na, Pb, Zn	100	0.1 mol/L HNO <sub>3</sub>	100 mL	
26015-23	Metals standard solution VIII (6 elements mix)	Be, Co, Ga, In, Tl, Y	100	0.5 mol/L HNO <sub>3</sub>	100 mL	

## Non-metal ion standard solution

Cat.No.	Name	Elem.	Component	Coc. (mg/L)	Package	JCSS
14613-23	Fluoride ion standard solution	F <sup>-</sup>	NaF solution	1000	100 mL	●
08126-23	Chloride ion standard solution	Cl <sup>-</sup>	NaCl solution	1000	100 mL	●
05018-96	Bromide ion standard solution	Br <sup>-</sup>	KBr solution	1000	100 mL	●
05807-96	Bromate ion standard solution	BrO <sub>3</sub> <sup>-</sup>	KBrO <sub>3</sub> solution	2000	100 mL	●
07731-97	Cyanide ion standard solution	CN <sup>-</sup>	KCN · KOH solution	1000	100 mL	●
28670-96	Nitrogen standard solution	NO <sub>3</sub> -N	KNO <sub>3</sub> solution	1000	100 mL	●
28628-23	Nitrate ion standard solution	NO <sub>3</sub> <sup>-</sup>	KNO <sub>3</sub> solution	1000	100 mL	●
28637-96	Nitrite-nitrogen standard solution	NO <sub>2</sub> -N	NaNO <sub>2</sub> solution	1000	100 mL	●
28630-23	Nitrite ion standard solution	NO <sub>2</sub> <sup>-</sup>	NaNO <sub>2</sub> solution	1000	100 mL	●
08169-96	Chlorate ion standard solution	ClO <sub>3</sub> <sup>-</sup>	NaClO <sub>3</sub> solution	1000	100 mL	●
08170-96	Chlorite ion standard solution	ClO <sub>2</sub> <sup>-</sup>	NaClO <sub>2</sub> solution	1000	100 mL	●
38005-23	Sulfate ion standard solution	SO <sub>4</sub> <sup>2-</sup>	Na <sub>2</sub> SO <sub>4</sub> solution	1000	100 mL	●
32958-96	Phosphorus standard solution	PO <sub>4</sub> -P	KH <sub>2</sub> PO <sub>4</sub> solution	1000	100 mL	●
32964-23	Phosphate ion standard solution	PO <sub>4</sub> <sup>3-</sup>	KH <sub>2</sub> PO <sub>4</sub> solution	1000	100 mL	●
24245-2B	Lithium standard solution 2	Li <sup>+</sup>	LiCl solution	1000	100 mL	●

## Non-metal ion standard solution

Cat.No.	Name	Elem.	Component	Coc. (mg/L)	Package	JCSS
37821-1B	Sodium standard solution	Na <sup>+</sup>	NaCl solution	1000	250 mL	●
37821-2B	Sodium standard solution	Na <sup>+</sup>	NaCl solution	1000	100 mL	●
25840-3B	Magnesium standard solution 2	Mg <sup>2+</sup>	MgCl <sub>2</sub> solution	1000	100 mL	●
07998-3B	Calcium standard solution 2	Ca <sup>2+</sup>	CaCl <sub>2</sub> solution	1000	100 mL	●
01802-96	Ammonium-nitrogen standard solution	NH <sub>4</sub> -N	NH <sub>4</sub> Cl solution	1000	100 mL	●
01852-23	Ammonium ion standard solution	NH <sub>4</sub> <sup>+</sup>	NH <sub>4</sub> Cl solution	1000	100 mL	●

## Multi-element standard solution (non-metal ion)

Cat.No.	Name	Component	Coc. (mg/L)	Package	JCSS
07196-96	Cation mixed standard solution I (4 elements mix)	Li <sup>+</sup>	2	50 mL	
		Na <sup>+</sup> , NH <sub>4</sub> <sup>+</sup>	10		
		K <sup>+</sup>	20		
07197-96	Cation mixed standard solution II (6 elements mix)	Li <sup>+</sup>	0.5	50 mL	
		Na <sup>+</sup> , NH <sub>4</sub> <sup>+</sup>	2		
		K <sup>+</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup>	5		
01853-96	Cation mixed standard solution III (3 elements mix)	NH <sub>4</sub> <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup>	100	50 mL	
08195-96	Cation mixed standard solution IV (3 elements mix)	Na <sup>+</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup>	100	50 mL	
01849-96	Anion mixed standard solution I (6 elements mix)	F <sup>-</sup>	4	50 mL	
		Cl <sup>-</sup>	8		
		NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup>	10		
		PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup>	20		
01850-96	Anion mixed standard solution II (4 elements mix)	NO <sub>2</sub> -N	100	50 mL	
		NO <sub>3</sub> -N	200		
		F <sup>-</sup>	500		
		Cl <sup>-</sup>	2000		
01857-96	Anion mixed standard solution III (5 elements mix)	Cl <sup>-</sup>	100	50 mL	
		Br <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup>	500		
		SO <sub>4</sub> <sup>2-</sup>	1000		
01856-96	Anion mixed standard solution IV (7 elements mix)	F <sup>-</sup>	5	50 mL	
		Cl <sup>-</sup> , Br <sup>-</sup>	10		
		NO <sub>2</sub> <sup>-</sup>	15		
		NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup>	30		
01855-96	Anion mixed standard solution V (5 elements mix)	SO <sub>4</sub> <sup>2-</sup>	40	50 mL	
		NO <sub>2</sub> -N	100		
		NO <sub>3</sub> -N	200		
		F <sup>-</sup>	500		
		ClO <sub>3</sub> <sup>-</sup>	1000		
		Cl <sup>-</sup>	2000		

## Organic compound standard solution

Cat.No.	Name	Component	Package	JCSS
41100-97	Total organic carbon standard solution	1000 mg/L in Water	2 mL×5	●
18396-96	Heptaoxyethylene dodecyl ether standard solution	100 mg/L in Methanol	2 mL×2	●
16117-96	Formaldehyde standard solution	1000 mg/L in Methanol	2 mL×5	●
44064-96	Vinyl chloride standard stock solution	0.1 mg/L in Methanol	2 mL×5	
01065-43	Arsenobetaine solution	25 mg/L in Water	10 mL	
10010-43	Dimethylarsinic acid solution	25 mg/L in Water	10 mL	

## Organic multi component standards solution

Cat.No.	Name	Package	JCSS
44077-97	Volatile organic 23 compounds standard solution (each 1,000 mg/L in Methanol)	2 mL×5	●
<Component>			
Benzene	1,2-Dichloroethane	trans-1,3-Dichloropropene	1,1,2-Trichloroethane
Bromodichloromethane	1,1-Dichloroethylene	trans-1,3-Dichloropropene	Trichloroethylene
Carbon tetrachloride	cis-1,2-Dichloroethylene	Tetrachloroethylene	o-Xylene
Chloroform	trans-1,2-Dichloroethylene	Toluene	m-Xylene
Dibromochloromethane	Dichloromethane	Tribromomethane	p-Xylene
1,4-Dichlorobenzene	1,2-Dichloropropane	1,1,1-Trichloroethane	

Cat.No.	Name	Package	JCSS	
44100-97	Volatile organic 25 compounds standard solution (each 1,000 mg/L in Methanol)	2 mL×2	●	
<Component>				
Benzene	1,2-Dichloroethane	trans-1,3-Dichloropropene	1,1,2-Trichloroethane	Tert-Butyl methyl ether
Bromodichloromethane	1,1-Dichloroethylene	trans-1,3-Dichloropropene	Trichloroethylene	1,4-Dioxane
Carbon tetrachloride	cis-1,2-Dichloroethylene	Tetrachloroethylene	o-Xylene	
Chloroform	trans-1,2-Dichloroethylene	Toluene	m-Xylene	
Dibromochloromethane	Dichloromethane	Tribromomethane	p-Xylene	
1,4-Dichlorobenzene	1,2-Dichloropropane	1,1,1-Trichloroethane		

Cat.No.	Name	Package	JCSS	
44102-96	Volatile organic 26 compounds standard stock solution XII (1,4-Dioxane: 1,000 mg/L, other: 100 mg/L in Methanol)	2 mL×5		
<Component>				
Benzene	1,2-Dichloroethane	trans-1,3-Dichloropropene	1,1,2-Trichloroethane	Tert-Butyl methyl ether
Bromodichloromethane	1,1-Dichloroethylene	trans-1,3-Dichloropropene	Trichloroethylene	1,4-Dioxane※
Carbon tetrachloride	cis-1,2-Dichloroethylene	Tetrachloroethylene	o-Xylene	Chloroethylene
Chloroform	trans-1,2-Dichloroethylene	Toluene	m-Xylene	
Dibromochloromethane	Dichloromethane	Tribromomethane	p-Xylene	
1,4-Dichlorobenzene	1, 2-Dichloropropane	1,1,1-Trichloroethane		

Cat.No.	Name	Package	JCSS
32669-96	Phenols standard solution (each 1,000 mg/L in Acetone)	2 mL×5	●
<Component>			
Phenol	2-Chlorophenol	4-Chlorophenol	
2,4-Dichlorophenol	2,6-Dichlorophenol	2,4,6-Trichlorophenol	

Cat.No.	Name	Package	JCSS
25989-96	Musty odor substances standard solution (each 100 mg/L in Methanol)	2 mL×5	●
<Component>			
Geosmin	2-Methylisoborneol		

Cat.No.	Name	Package	JCSS
18150-97	Halogenated acetic acids standard solution (each 1,000 mg/L in <i>tert</i> -butyl methyl ether)	2 mL×5	●
<Component>			
Bromoacetic acid	Chloroacetic acid	Dichloroacetic acid	
Trichloroacetic acid			

# ASNITE-Certified Reference Materials(CRMs)

We acquired "the authorization of the standard substance manufacturer " of the ASNITE Accreditation System by IAJapan.  
 The ASNITE accreditation program operated by IA Japan recognizes ISO 17034 and ISO / IEC 17025 as accreditation standards and accredits the ability as a standard substance producer. A certificate will be issued specifying the internationally accepted "uncertainty" through the ILAC MRA. This is a proof of traceability to national measurement standards, etc., and has the technical ability to produce and supply high quality and highly reliable standard substances as a producer of standard substances that are internationally accepted by our company. It becomes proof of.

## Features

We provide certificate with a accreditation symbol specifying the "UNCERTAINTY" that proves the accuracy of our test results clearly and ensuring the traceability to global standards



\*Certificate is available in Japanese only

## Outline of Accreditation

### CRMs for volumetric analysis

Calibration Item	Specification	Calibration and Measurement Capability
Amidosulfuric acid	≥99.90 %	≥0.04 %
Copper	≥99.98 %	≥0.02 %
Potassium dichromate	≥99.98 %	≥0.04 %
Potassium hydrogen phthalate	99.95-100.05 %	≥0.04 %
Potassium iodate	≥99.95 %	≥0.04 %
Sodium carbonate	≥99.95 %	≥0.04 %
Sodium chloride	≥99.95 %	≥0.06 %
Sodium fluoride	≥99.90 %	≥0.04 %
Sodium oxalate	≥99.95 %	≥0.05 %
Zinc	≥99.99 %	≥0.001 %

Calibration and Measurement Capability  
 These are expanded uncertainties of measurement with a coverage probability of 95%.

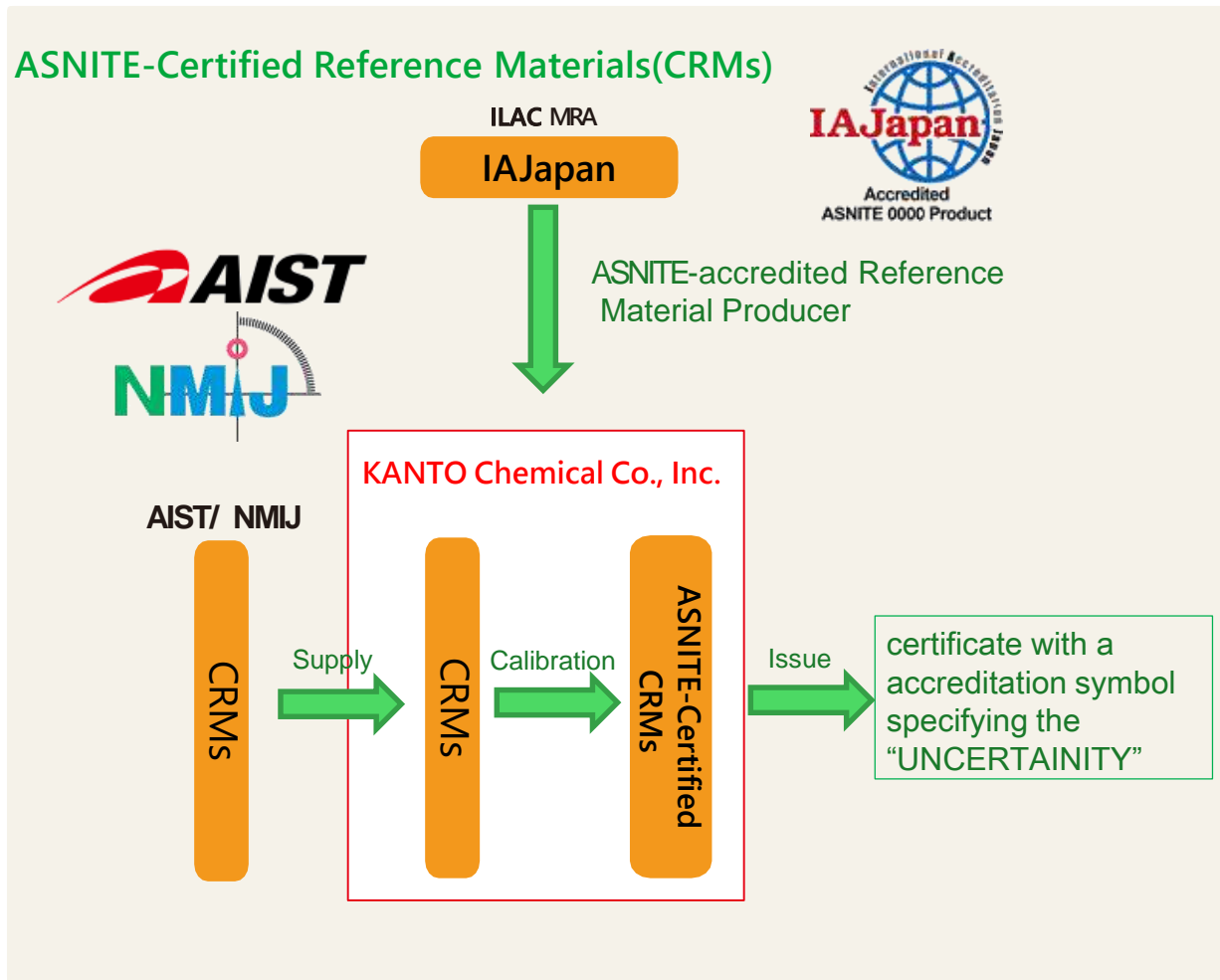
### CRMs for Electrolytic Conductivity Standard Solution

Calibration Item	Specification	Calibration and Measurement Capability
Electrolytic Conductivity Standard Solution	139.4 mS/m~142.2 mS/m	≥0.6 %



\*Certificate is available in Japanese only

## ASNITE-Certified Reference Materials(CRMs)



### CRMs for volumetric analysis

Cat.No.	Name	Package
37372-96	Amidosulfuric acid	50 g
07441-96	Copper, turnings	50 g
32334-96	Potassium dichromate	50 g
32311-96	Potassium hydrogen phthalate	50 g
32350-96	Potassium iodate	50 g
37141-96	Sodium carbonate	50 g
37144-96	Sodium chloride	50 g
37227-96	Sodium oxalate	50 g
48001-96	Zinc, drops	50 g

### CRMs for Electrolytic Conductivity Standard Solution

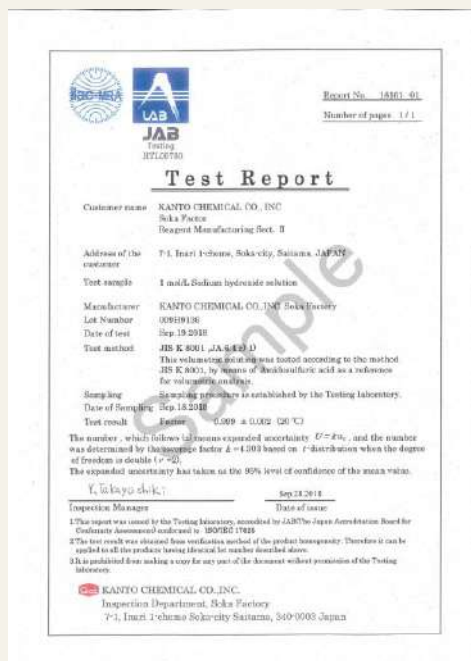
Cat.No.	Name	Package
14317-96	Electrolytic Conductivity Standard Solution [Aqueous Solution of Potassium Chloride (0.01mol/kg)]	250 mL

ISO/IEC 17025 compliance Standard solution for volumetric titration

Kanto Chemical has acquired authorization based on ISO / IEC 17025. For the tests within the accreditation scope, we supply a test report with the JAB accreditation symbol. As it is also compliant with the International Mutual Recognition (MRA), the test report also includes the ILAC / MRA symbol. Test reports with ILAC / MRA symbols and JAB accreditation symbols provide acceptable test results worldwide.

Features

Test report with JAB symbols declare “uncertainty” valid for world wide



\*Test report with JAB symbol requires additional fee.

Outline of Accreditation

Laboratory name	Kanto Chemical Co., Inc. Soka Factory Inspection Department
The date of Accreditation	October 20, 2000
Accreditation by	The Japan Accreditation Board for Conformity Assessment (JAB)
Certificate No.	RTL00780
Applied scope	JIS K 8001 General rule for test methods of reagents annex JA.6 for Volumetric solutions



Cat.No.	Name	Package
14568-08	0.1mol/L Disodium dihydrogen ethylenediamine tetraacetate solution	500 mL
14569-08	0.05mol/L Disodium dihydrogen ethylenediamine tetraacetate solution	500 mL
14570-08	0.01mol/L Disodium dihydrogen ethylenediamine tetraacetate solution	500 mL
18591-08	1mol/L Hydrochloric acid	500 mL
18593-08	0.5mol/L Hydrochloric acid	500 mL
18595-08	0.1mol/L Hydrochloric acid	500 mL
18598-08	0.05mol/L Hydrochloric acid	500 mL
37847-08	1mol/L Sodium hydroxide solution	500 mL
37851-08	0.1mol/L Sodium hydroxide solution	500 mL
37880-08	0.5mol/L Sulfuric acid	500 mL
37881-08	0.25mol/L Sulfuric acid	500 mL
37883-08	0.05mol/L Sulfuric acid	500 mL
32795-08	0.1mol/L Perchloric acid-acetic acid solution	500 mL
32859-08	0.1mol/L Potassium permanganate solution	500 mL
32860-08	0.02mol/L Potassium permanganate solution	500 mL
37862-08	0.05mol/L Sodium oxalate solution	500 mL
37814-08	0.1mol/L Silver nitrate solution	500 mL
37834-08	0.1mol/L Sodium chloride solution	500 mL
37870-08	0.1mol/L Sodium thiosulfate solution	500 mL
20243-08	0.05mol/L Iodine solution	500 mL



## Standard solution for volumetric titration

### Features

- Factor: 0.990 to 1.009

- "Factor" and "Expiry period" are declared on the label

Cat.No.	Name	Conc.	Equiv. conc.	Package	Note	
01771-08	Acetic acid	1 mol/L	1N	500 mL		
01772-08		0.1 mol/L	N/10	500 mL		
37878-08	Amidosulfuric acid solution	0.1 mol/L	N/10	500 mL		
01793-08	Ammonia solution	1 mol/L	1N	500 mL		
01793-89		1 mol/L	1N	5 L		
01794-08		0.1 mol/L	N/10	500 mL		
01801-08	Ammonium thiocyanate solution	0.1 mol/L	N/10	500 mL		
04866-08	Barium acetate solution, 2-propanolic	0.005 mol/L	N/100	500 mL		
08063-08	Cerium(IV) sulfate solution	0.1 mol/L	N/10	500 mL		
08122-08	Cerium(IV) tetraammonium sulfate solution	0.1 mol/L	N/10	500 mL		
14579-08	Disodium dihydrogen ethylenediamine tetraacetate solution	0.25 mol/L		500 mL		
14567-08		0.2 mol/L		500 mL		
14568-08		0.1 mol/L		500 mL	MRA	
14569-08		0.05 mol/L		500 mL	MRA	
14580-08		0.025 mol/L		500 mL		
14570-08		0.01 mol/L		500 mL	MRA	
18588-08	Hydrochloric acid	6 mol/L	6N	500 mL		
18589-08		5 mol/L	5N	500 mL		
18590-08		2 mol/L	2N	500 mL		
18591-08		1 mol/L	1N	500 mL	MRA	
18591-79		1 mol/L	1N	1 L	F=1.000	
18593-08		0.5 mol/L	N/2	500 mL	MRA	
18593-76		0.5 mol/L	N/2	3 L		
18594-08		0.2 mol/L	N/5	500 mL		
18595-08		0.1 mol/L	N/10	500 mL	MRA	
18595-79		0.1 mol/L	N/10	1 L	F=1.000	
18595-76		0.1 mol/L	N/10	3 L		
18598-08		0.05 mol/L	N/20	500 mL	MRA	
18599-08		0.02 mol/L	N/50	500 mL		
18600-08		0.01 mol/L	N/100	500 mL		
20242-08		Iodine solution	0.5 mol/L	1N	500 mL	
20243-08			0.05 mol/L	N/10	500 mL	MRA
20244-08			0.01 mol/L	N/50	500 mL	
20245-08			0.005 mol/L	N/100	500 mL	
25889-08		Magnesium chloride solution	0.05 mol/L		500 mL	
25832-08	Mercury(II) nitrate solution	0.00705 mol/L	0.0141N	500 mL		
28583-08	Nitric acid	1 mol/L	1N	500 mL		
28584-08		0.1 mol/L	N/10	500 mL		
31536-08	Oxalic acid solution	0.5 mol/L	1N	500 mL		
31537-08		0.05 mol/L	N/10	500 mL		
31538-08		0.0125 mol/L	N/40	500 mL		
32795-08	Perchloric acid-acetic acid solution	0.1 mol/L	N/10	500 mL	MRA	
32795-76		0.1 mol/L	N/10	3 L		
32836-08	Potassium chloride solution	0.1 mol/L	N/10	500 mL		
32837-08		0.02 mol/L	N/50	500 mL		
32887-08		0.01 mol/L	N/100	500 mL		

## Standard solution for volumetric titration

Cat.No.	Name	Conc.	Equiv. conc.	Package	Note
32839-08		1/6 mol/L	1N	500 mL	
32841-08	Potassium dichromate solution	1/30 mol/L	N/5	500 mL	
32842-08		1/60 mol/L	N/10	500 mL	
32845-08		8 mol/L	8N	500 mL	in water
32846-08		1 mol/L	1N	500 mL	in water
32846-76		1 mol/L	1N	3 L	in water
32847-08	Potassium hydroxide solution	0.5 mol/L	N/2	500 mL	in water
32847-76		0.5 mol/L	N/2	3 L	in water
32849-08		0.1 mol/L	N/10	500 mL	in water
32849-76		0.1 mol/L	N/10	3 L	in water
32848-08		0.5 mol/L	N/2	500 mL	in Ethanol
32848-76	Potassium hydroxide solution, alcoholic	0.5 mol/L	N/2	3 L	in Ethanol
32850-08		0.1 mol/L	N/10	500 mL	in Ethanol
32851-08	Potassium hydroxide solution, methanolic	0.1 mol/L	N/10	500 mL	in Methanol
32852-08	Potassium hydroxide solution, 2-propanolic	0.1 mol/L	N/10	500 mL	in IPA
32859-08		0.1 mol/L	N/2	500 mL	MRA
32860-08		0.02 mol/L	N/10	500 mL	MRA
32861-08		0.005 mol/L	N/40	500 mL	
32861-76	Potassium permanganate solution	0.005 mol/L	N/40	3 L	
32950-84		0.005 mol/L	N/40	10 L	
32862-08		0.004 mol/L	N/50	500 mL	
32863-08		0.002 mol/L	N/100	500 mL	
32865-08		1 mol/L	1N	500 mL	
32866-08	Potassium thiocyanate solution	0.1 mol/L	N/10	500 mL	
37813-08		1 mol/L	1N	500 mL	
37814-08		0.1 mol/L	N/10	500 mL	MRA
37815-08		0.05 mol/L	N/20	500 mL	
37890-08	Silver nitrate solution	0.0282 mol/L	0.0282N	500 mL	
37816-08		0.02 mol/L	N/50	500 mL	
37817-08		0.01 mol/L	N/100	500 mL	
37817-76		0.01 mol/L	N/100	3 L	
38004-08	Sodium acetate-acetic acid solution	0.1 mol/L		500 mL	
37830-08		0.5 mol/L	1N	500 mL	
37831-08	Sodium carbonate solution	0.25 mol/L	N/2	500 mL	
37832-08		0.05 mol/L	N/10	500 mL	
37833-08		0.01 mol/L	N/50	500 mL	
37926-08		1 mol/L	1N	500 mL	
37834-08		0.1 mol/L	N/10	500 mL	MRA
37918-08	Sodium chloride solution	0.05 mol/L	N/20	500 mL	
37835-08		0.02 mol/L	N/50	500 mL	
37836-08		0.01 mol/L	N/100	500 mL	
37843-08	Sodium hydrogen carbonate solution	0.1 mol/L	N/10	500 mL	
37902-08		8 mol/L	8N	500 mL	
37844-08		5 mol/L	5N	500 mL	
37845-08		4 mol/L	4N	500 mL	
37846-08	Sodium hydroxide solution	2 mol/L	2N	500 mL	
37847-08		1 mol/L	1N	500 mL	MRA
37847-79		1 mol/L	1N	1 L	F=1.000
37848-08		0.5 mol/L	N/2	500 mL	
37850-08		0.2 mol/L	N/5	500 mL	

## Standard solution for volumetric titration

Cat.No.	Name	Conc.	Equiv. conc.	Package	Note
37851-08	Sodium hydroxide solution	0.1 mol/L	N/10	500 mL	MRA
37851-79		0.1 mol/L	N/10	1 L	F=1.000
37851-76		0.1 mol/L	N/10	3 L	
37852-08		0.05 mol/L	N/20	500 mL	
37853-08		0.02 mol/L	N/50	500 mL	
37854-08		0.01 mol/L	N/100	500 mL	
37859-23	Sodium methoxide solution	1 mol/L		100 mL	
37860-08	Sodium oxalate solution	0.25 mol/L	N/2	500 mL	
37861-08		0.125 mol/L	N/4	500 mL	
37862-08		0.05 mol/L	N/10	500 mL	MRA
37863-08		0.0125 mol/L	N/40	500 mL	
37863-76		0.0125 mol/L	N/40	3 L	
37998-84		0.0125 mol/L	N/40	10 L	
37864-08		0.005 mol/L	N/100	500 mL	
37867-08	Sodium thiocyanate solution	0.1 mol/L	N/10	500 mL	
37869-08	Sodium thiosulfate solution	1 mol/L	1N	500 mL	
37894-08		0.5 mol/L	N/2	500 mL	
38107-76		0.2 mol/L	N/5	3 L	
37870-08		0.1 mol/L	N/10	500 mL	MRA
37870-76		0.1 mol/L	N/10	3 L	
37868-08		0.05 mol/L	N/20	500 mL	
37871-08		0.025 mol/L	N/40	500 mL	
37872-08		0.02 mol/L	N/50	500 mL	
37873-08		0.01 mol/L	N/100	500 mL	
37924-08			3 mol/L	6N	500 mL
37927-08	Sulfuric acid	2.5 mol/L	5N	500 mL	
37879-08		1 mol/L	2N	500 mL	
37879-76		1 mol/L	2N	3 L	
37880-08		0.5 mol/L	1N	500 mL	MRA
37881-08		0.25 mol/L	N/2	500 mL	MRA
37882-08		0.1 mol/L	N/5	500 mL	
37882-76		0.1 mol/L	N/5	3 L	
37883-08		0.05 mol/L	N/10	500 mL	MRA
37884-08		0.025 mol/L	N/20	500 mL	
37885-08		0.01 mol/L	N/50	500 mL	
37886-08		0.005 mol/L	N/100	500 mL	
40858-23	Tetra-n-butylammonium hydroxide solution, in benzene and methanol	0.1 mol/L	N/10	100 mL	
48108-08	Zinc acetate solution	0.2 mol/L		500 mL	
48098-08		0.1 mol/L		500 mL	
48107-08		0.05 mol/L		500 mL	
48099-08		0.01 mol/L		500 mL	
48100-08	Zinc chloride solution	0.1 mol/L		500 mL	
48105-08		0.01 mol/L		500 mL	
48140-08	Zinc solution	0.1 mol/L		500 mL	
48141-08		0.05 mol/L		500 mL	
48142-08		0.01 mol/L		500 mL	
48111-08	Zinc sulfate solution	0.05 mol/L		500 mL	

## Standard solution for volumetric titration that conform to Japanese Pharmacopoeia(JP)

### Features

- It is a standard solution for volumetric titration with the guaranteed concentration after preparation and standardization based on the Japanese Pharmacopoeia.
- "Expiry period" are declared on the label

Cat.No.	Name	Conc.	Equiv. conc.	Package	Note	
01800-08	Ammonium thiocyanate solution	0.1 mol/L	N/10	500 mL		
01800-23		0.1 mol/L	N/10	100 mL		
14565-08		0.1 mol/L		500 mL		
14565-23		0.1 mol/L		100 mL		
13500-08	Disodium dihydrogen ethylenediamine tetraacetate solution	0.05 mol/L		500 mL		
13500-23		0.05 mol/L		100 mL		
14572-08		0.02 mol/L		500 mL		
14572-23		0.02 mol/L		100 mL		
18585-08	Hydrochloric acid	1 mol/L	1N	500 mL		
18585-23		1 mol/L	1N	100 mL		
18601-08		0.5 mol/L	N/2	500 mL		
18601-23		0.5 mol/L	N/2	100 mL		
18602-08		0.2 mol/L	N/5	500 mL		
18602-23		0.2 mol/L	N/5	100 mL		
18603-08		0.1 mol/L	N/10	500 mL		
18603-23		0.1 mol/L	N/10	100 mL		
20246-08		Iodine solution	0.05 mol/L		500 mL	
20246-23			0.05 mol/L		100 mL	
32796-08	Perchloric acid	0.1 mol/L		500 mL		
32796-23		0.1 mol/L		100 mL		
32394-08		0.05 mol/L		500 mL		
32394-23		0.05 mol/L		100 mL		
32875-08	Potassium hydroxide solution	0.5 mol/L	N/2	500 mL		
32874-08		0.1 mol/L	N/10	500 mL		
32874-23		0.1 mol/L	N/10	100 mL		
34131-08	Potassium hydroxide-ethanol solution	0.5 mol/L		500 mL		
34131-13		0.5 mol/L		100 mL		
34130-08		0.1 mol/L		500 mL		
34130-13		0.1 mol/L		100 mL		
32873-08	Potassium permanganate solution	0.02 mol/L	N/10	500 mL		
32873-23		0.02 mol/L	N/10	100 mL		
37812-08	Silver nitrate solution	0.1 mol/L	N/10	500 mL		
37812-23		0.1 mol/L	N/10	100 mL		
05827-08	Benzethonium chloride solution	0.004 mol/L		500 mL		
37189-08	Sodium hydroxide solution	1 mol/L	1N	500 mL		
37189-23		1 mol/L	1N	100 mL		
37190-08		0.5 mol/L	N/2	500 mL		
37190-23		0.5 mol/L	N/2	100 mL		
37191-08		0.2 mol/L	N/5	500 mL		
37191-23		0.2 mol/L	N/5	100 mL		
37192-08		0.1 mol/L	N/10	500 mL		
37192-23		0.1 mol/L	N/10	100 mL		

## Standard solution for volumetric titration that conform to Japanese Pharmacopoeia(JP)

Cat.No.	Name	Conc.	Equiv. conc.	Package	Note
37866-08	Sodium thiosulfate solution	0.1 mol/L	N/10	500 mL	
37866-23		0.1 mol/L	N/10	100 mL	
37880-13	Sulfuric acid	0.5 mol/L	1N	250 mL	
37880-23		0.5 mol/L	1N	100 mL	
37865-08		0.25 mol/L	N/2	500 mL	
37865-23		0.25 mol/L	N/2	100 mL	
37891-08		0.05 mol/L	N/10	500 mL	
37891-23		0.05 mol/L	N/10	100 mL	
48103-08	Zinc acetate solution	0.02 mol/L		500 mL	
48103-23		0.02 mol/L		100 mL	
48012-08		0.05 mol/L		500 mL	
48012-23		0.05 mol/L		100 mL	
48113-08	Zinc sulfate solution	0.1 mol/L		500 mL	
48113-23		0.1 mol/L		100 mL	
48143-23	Zinc solution for standardization of EDTA · 2Na solution	0.1 mol/L		100 mL	
48144-23		0.05 mol/L		100 mL	
48145-23		0.01 mol/L		100 mL	

- Please use the products listed in the catalog as reagents (chemicals used for testing or research purpose).
- Product information is subject to change without notice. For the latest information, please have a look at our website "Cica-Web".

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