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chemicals**

(Innovation for **High Purity Solvents
& Lab Reagents**)

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DAEJUNG CHEMICALS & METALS

General Analysis for ISO, ACS(AR), Pharma & pure

Spectroscopy & Chromatography
(AAS, ICP, UV-vis/ IR Spectroscopy, HPLC, GC, TLC)

Buffer Solutions

Pharma Excipients

Electronic grade high purity solvents

Karl Fischer Reagent

Eumseong Plant located in Korea

The biggest reagent factory
(116,000 square meters)

DISTRIBUTOR:- Blue Horizon - Gopal Niwas, 135, Princess Street, Mumbai-400 002. INDIA • Mob.: +91-98202 06611 • Email: sales.bluehorizon@gmail.com

Introduction of item



■ *Poisonous Metal Analysis (RHM)*

Test Item	HCl	HNO ₃	H ₂ SO ₄
Assay	above 36.0 %	above 69.0 %	above 96.0 %
Arsenic(As)	below 1.0 ppb	below 1.0 ppb	below 2.0 ppb
Cadmium(Cd)	below 0.5 ppb	below 0.5 ppb	below 1.0 ppb
Mercury(Hg)	below 1.0 ppb	below 3.0 ppb	below 1.0 ppb
Chromium(Cr)	below 5.0 ppb	below 5.0 ppb	below 5.0 ppb
Lead(Pb)	below 5.0 ppb	below 5.0 ppb	below 5.0 ppb
Nickel(Ni)	below 5.0 ppb	-	below 5.0 ppb
Manganese(Mn)	below 3.0 ppb	below 1.0 ppb	below 3.0 ppb
Tin(Sn)	-	below 3.0 ppb	-
Packing	500G, 1KG	500G, 1KG	500G, 1KG

■ *Pharmaceutical raw materials*

No.	Product Name	Packing	Grade
631-2	Isopropyl alcohol	D.J Packing(100g ↑)	KP
631-3	Acetone	D.J Packing(100g ↑)	B.P
631-4	Methylene chloride	D.J Packing(100g ↑)	N.F
631-6	Strong ammonia solution	1L, 18L, 200L	N.F
631-10	Acetic acid, glacial (99~101%)	D.J Packing(0.5kg ↑)	KP
631-11	Sodium chloride	D.J Packing(100g ↑)	KP
631-12	Methyl alcohol	D.J Packing(100g ↑)	N.F
631-21	Benzyl alcohol	500ml, 1L, 18L	KP
631-33	Strong hydrogen peroxide(30%)	500g, 1kg, 20kg	USP
631-36	Ethyl alcohol 99.5%	D.J Packing	KP
631-44	Ethyl alcohol(synthesis)	1L, 18L, 200L	KP
631-45	Ethyl alcohol(fermentation)	D.J Packing	KP
631-50	Glycerine (98~101%)	500g, 1kg, 20kg	KP
1886-63	Glycerine solution (80~85%)	D.J Packing(100g ↑)	KP
1886-64	Dried Sodium Carbonate	D.J Packing	KP

■ *BIO Solvent*

Product Name	Assay	Grade	Unit
Acetonitrile	above 99.9 %	BIO	1L
Dichloromethane	above 99.85 %	BIO	1L
N.N-Dimethylformamide	above 99.9 %	BIO	1L
Ethyl alcohol	above 95.0 v/v %	BIO	1L
Methyl alcohol	above 99.9 %	BIO	1L



■ *HPLC & PRA Solvent*

Product Name	HPLC	PRA	Unit
Acetone	○	○	4L
Acetonitrile	○	○	4L
n-Butanol(1-Butanol)	○		4L
tert-Butyl methyl ether	○		4L
Chloroform	○	○	4L
Cyclohexane	○		4L
1,2-Dichloroethane	○		4L
Dichloromethane	○	○	4L
N,N-Dimethylacetamide	○		4L
N,N-Dimethylformamide(DMF)	○		4L
Dimethyl sulfoxide(DMSO)	○		4L
1,4-Dioxane	○		4L
Ethyl acetate	○	○	4L
Ethyl alcohol 99.9 %	○		4L
Ethyl ether	○		4L
n-Heptane	○	○	4L
n-Hexane 95.0 %	○	○	4L
Isopropyl alcohol(IPA)	○	○	4L
Methyl alcohol	○	○	4L
Methyl ethyl ketone	○		4L
Tetrahydrofuran	○		4L
Tetrahydrofuran (Stabilized)	○		4L
Toluene	○	○	4L
Water	○		4L
Ultra pure-Water	○		4L



■ *Anhydrous Solvent*

(Water 200 ppm )

Product Name	Assay	Grade	Unit
Acetonitrile anhydrous	above 99.9 %	GR	1L
N.N-Dimethylformamide anhydrous	above 99.9 %	GR	1L
Dichloromethane anhydrous	above 99.9 %	GR	1L
Dimethyl sulfoxide anhydrous	above 99.8 %	GR	1L
n-Hexane anhydrous	above 99.9 %	GR	1L
Methyl alcohol anhydrous	above 99.9 %	GR	1L
Tetrahydrofuran anhydrous	above 99.8 %	GR	1L
Toluene anhydrous	above 99.8 %	GR	1L

Introduction of item



■ *LC/MS Chromatography Solvent*

Enhanced performances

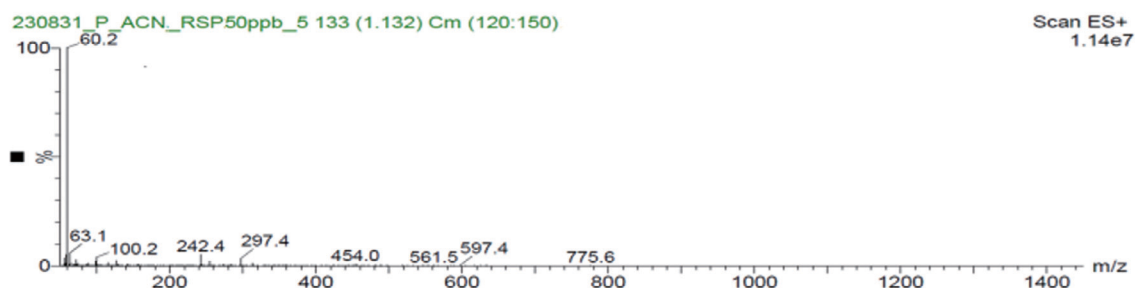
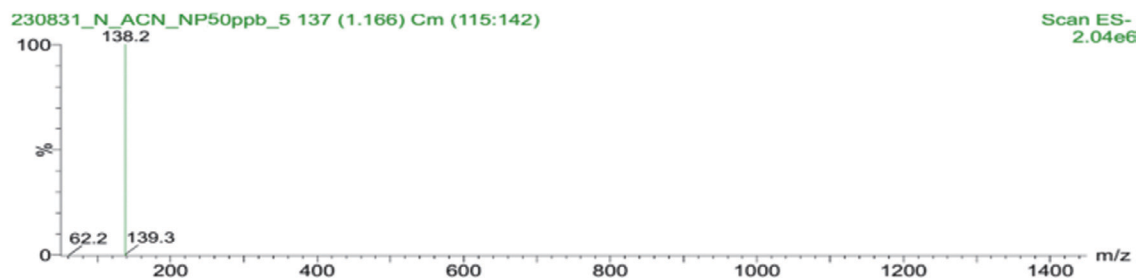
High UV transmission

Low content in inorganic and metallic ions

Product Name	Unit	Product Name	Unit
Acetonitrile-0.1% Trifluoroacetic acid	4L	Water-0.1% Formic acid	4L
Acetonitrile-0.1% Formic acid	4L	Water-0.05% Trifluoroacetic acid	4L
Acetonitrile-0.1% Acetic acid	4L	Water-0.1% Trifluoroacetic acid	4L

LC-Mass Solvent

Product Name	Unit	Product Name	Unit
Acetonitrile	1L, 4L	Methyl alcohol	1L, 4L
Isopropyl alcohol	1L, 4L	Water	1L, 4L



HPLC Gradient Solvent

Product Name	Unit	Test Item	Specification
Acetonitrile	1L, 4L	Largest eluted peak(210nm) Largest eluted peak(254nm)	below 2.0 mAU below 0.5 mAU
Methyl alcohol	1L, 4L	Largest eluted peak(254nm)	below 2.0 mAU



■ *Karl Fischer Reagent*

Pat. no. | 10-0648855
10-0648856

Volumetric-Karl Fischer Reagent

Product name	Form	Factor (H ₂ O · mg/ml)	Dehydrate Solution	Use	Application	Unit
VM-I	with Pyridine	5	VM-II	for general	Inorganic chemicals, Organic chemicals, Pesticide, Detergent, Pharmaceutical etc.	1L
NM-I	Pyridine Free	5	NM-II			1L
VK-I	with Pyridine	5	VK-II	for ketone	Ketones, Aldehyde(except Acete aldehyde) etc.	1L
VO-I	with Pyridine	5	VO-II	for oil	Vegetavle oil, Fat and oils, Adhesive etc.	1L
NO-I	Pyridine Free	5	NO-II			1L
VM-I	with Pyridine	5	VS-II	for sugar	Sugars, Protein and etc.	1L

Coulometric-Karl Fischer Reagent

Product name	Form	Type	Use	Application	Unit
ACM	without diaphragm	One-part	for general	TRACE ION(LESS THAN 1000PPM~1PPM)	500ml
AM-I	with diaphragm	Two-part	for general	TRACE ION(LESS THAN 1000PPM~1PPM)	500ml
CM-II	with diaphragm	Two-part	for general	TRACE ION(LESS THAN 1000PPM~1PPM)	5ml
					5ml×5
					5ml×10

Dehydrated Solution

Product name	Use	Reference	Unit
VM-II	for general	using with VM-I	1L
VK-II	for ketone	using with VK-I	1L
VO-II	for oil	using with VO-I	1L
VS-II	for Sugars	using with VM-I or NM-I	1L
NM-II	for general	using with NM-I	1L
NO-II	for oil	using with NO-I	1L
CP-II	Organic acid	using with VM-I or NM-I	1L
PE-II	Carbonylic complex and etc.		1L
PP-II	Aldehydes		1L
SM-II	Amines		1L

Titer choice guide for Daejung's Karl Fischer Reagent

K.F.R. of Factor	Moisture of smaple(%)	Quantity of sample
7~5 (H ₂ O · mg/ml)	30~10	0.3~0.5
3 (H ₂ O · mg/ml)	10~0.1	0.5~5

Introduction of item



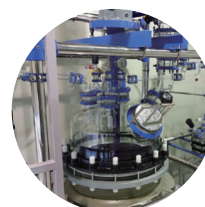
■ *Daejung SGR(Special Guaranteed Reagent)*

Product name	Unit	
Acetone 99.9%	1L	100ml (GC)
Acetonitrile 99.9%	1L	100ml (GC)
Chloroform 99.9%	1L	500ml
Dichloromethane 99.9%	1L	500ml
N,N-Dimethylformamide 99.9%	1L	100ml (GC)
Dimethyl Sulfoxide 99.9%	1L	500ml
1,4-Dioxane 99.9%	1L	500ml
Ethyl Alcohol anhydrous 99.9%	1L	500ml
Ethyl Acetate 99.9%	1L	100ml (GC)
n-Hexane 99.0%	1L	100ml (GC)
Methanol 99.9%	1L	100ml (GC)
Methyl Ethyl Ketone 99.9%	1L	100ml (GC)
N-Methyl-2-Pyrrolidone 99.9%	1L	100ml (GC)
1-Propanol 99.9%	1L	500ml
2-Propanol 99.9%	1L	100ml (GC)
Tetrahydrofuran 99.9%	1L	100ml (GC)
Tetrahydrofuran(Stabilized) 99.9%	1L	500ml
Toluene 99.9%	1L	100ml (GC)

■ *Water*

Grade	Test Item		Use
ICPMS	Cl/PO ₄ -----	<50ppb K/Na/B -----<50ppt	Ultratrace
	SO ₄ -----	<100ppb Filtration ----- 0.2μm	
	V/Co/Ga/Ni/Cr/Ag/Cd/Sr/As <5.0ppt	Mg/Ca/Al/Hg ----- <20ppt	
	Fe/Li/Pb/Ba/Mn/Cu/Zn/Mo/P <10ppt	Sn/Se ----- <30ppt	
Multi-Pure	TOC -----	<10ppb RNases ----- <0.003ng/ml	LC-MS/ BIO/IC/UV etc.
	Absorbance 254nm -----	<0.001 Endotoxin ---- <0.001EU/ml	
	Cl/PO ₄ /SO ₄ -----	<100ppb DNase ----- <20pg/ml	
	Total Metal ion -----	<500ppb Filtration ----- 0.2μm	

▶ ICPMS : ICP-MS/GFAAS ▶ Multi-Pure : LC-MS/BIO/IC/UV



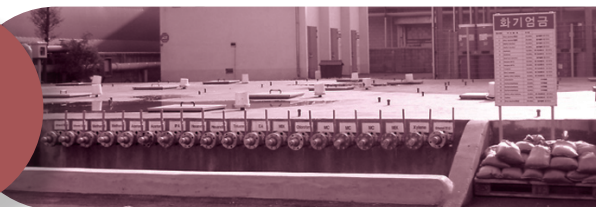
■ *Atomic Absorption S/T Solution*

Product name	Unit	Product name	Unit
Aluminium standard solution 1,000ppm	100ml	Magnesium standard solution 1,000ppm	100ml
Antimony standard solution 1,000ppm	100ml	Manganese standard solution 1,000ppm	100ml
Arsenic standard solution 1,000ppm	100ml	Mercury standard solution 1,000ppm	100ml
Barium standard solution 1,000ppm	100ml	Molybdenum standard solution 1,000ppm	100ml
Bismuth standard solution 1,000ppm	100ml	Nickel standard solution 1,000ppm	100ml
Boron standard solution 1,000ppm	100ml	Platinum standard solution 1,000ppm	100ml
Cadmium standard solution 1,000ppm	100ml	Potassium standard solution 1,000ppm	100ml
Calcium standard solution 1,000ppm	100ml	Silver standard solution 1,000ppm	100ml
Cerium standard solution 1,000ppm	100ml	Sodium standard solution 1,000ppm	100ml
Chromium standard solution 1,000ppm	100ml	Strontium standard solution 1,000ppm	100ml
Cobalt standard solution 1,000ppm	100ml	Tin standard solution 1,000ppm	100ml
Copper standard solution 1,000ppm	100ml	Tungsten standard solution 1,000ppm	100ml
Iron standard solution 1,000ppm	100ml	Vanadium standard solution 1,000ppm	100ml
Lanthanum standard solution 1,000ppm	100ml	Yttrium standard solution 1,000ppm	100ml
Lead standard solution 1,000ppm	100ml	Zinc standard solution 1,000ppm	100ml
Lithium standard solution 1,000ppm	100ml	Zirconium standard solution 1,000ppm	100ml

■ *Chemical Analysis & Ion Chromatography S/T Solution*

Product name	Unit
Ammonium nitrogen standard solution(NH ₄ -N) 100ppm	100ml
Nitrate nitrogen standard solution (NO ₃ -N) 100ppm	100ml
Nitrite nitrogen standard solution (NO ₂ -N) 100ppm	100ml
Ammonium standard solution (NH ₄) 1000ppm	100ml
Bromine standard solution (Br) 1000ppm	100ml
Chloride standard solution (Cl) 1000ppm	100ml
Fluoride standard solution (F) 1000ppm	100ml
Nitrate standard solution (NO ₃) 1000ppm	100ml
Nitrite standard solution (NO ₂) 1000ppm	100ml
Nitrogen standard solution (N) 1000ppm	100ml
Phosphorus standard solution (P) 1000ppm	100ml
Phosphate standard solution (PO ₄) 1000ppm	100ml
Sulfate standard solution (SO ₄) 1000ppm	100ml

Introduction of item



■ Rare earth metal & Rare metal compounds

Product name	Assay	Packing
Cerium(III) chloride heptahydrate	99.9%	25g, 500g
Cerium(III) nitrate hexahydrate	99.9%	25g, 500g
Cerium(III) sulfate octahydrate	99.9%	25g
Cerium(IV) sulfate tetrahydrate	99.9%	25g, 500g
Cerium(IV) oxide	99.95%	25g, 500g
Dysprosium(III) oxide	99.9%	25g
Erbium(III) oxide	99.9%	25g
Europium(III) nitrate hexahydrate	99.9%	25g, 100g
Europium(III) oxide	99.999%	5g, 25g
Gadolinium(III) nitrate hexahydrate	99.99%	25g, 100g
Gadolinium(III) oxide	99.9%	25g, 100g
Gadolinium(III) sulfate octahydrate	99.9%	25g, 100g
Holmium(III) oxide	99.9%	5g, 25g
Lanthanum(III) chloride heptahydrate	99.9%	25g, 500g
Lanthanum(III) nitrate hexahydrate	99.9%	25g, 500g
Lanthanum(III) oxide	99.99%	25g, 500g
Lutetium(III) oxide	99.9%	5g, 25g
Neodymium(III) chloride hexahydrate	99.9%	25g, 100g
Neodymium(III) nitrate hexahydrate	99.9%	25g, 100g
Neodymium(III) oxide	99.9%	25g, 100g
Niobium(V) oxide	99.9%	25g, 500g
Osmium(VIII) oxide	99.9%	1g, 5g
Praseodymium(III,IV) oxide	99.9%	25g
Ruthenium(IV) oxide anhydrous	99.9%	5g, 25g
Samarium(III) nitrate hexahydrate	99.9%	25g, 100g
Samarium(III) oxide	99.9%	25g, 100g
Scandium(III) oxide	99.9%	5g, 25g
Tantalum(V) oxide	99.9%	25g, 500g
Terbium(III) chloride hexahydrate	99.99%	5g, 25g
Terbium(III) nitrate hexahydrate	99.9%	5g, 25g
Terbium(III,IV) oxide	99.99%	5g, 25g
Thulium(III) oxide	99.99%	5g, 25g
Ytterbium(III) oxide	99.99%	25g
Yttrium(III) chloride hexahydrate	99.9%	25g, 100g
Yttrium(III) nitrate hexahydrate	99.99%	25g, 500g
Yttrium(III) oxide	99.999%	25g, 500g