



## Biochemical Reagents

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## Molecular Biology

### Nucleic Acid Purification

Product Name	CAS No.	Storage	Product No.	PKG Size
10mol/l-Ammonium Acetate Solution		RT	02432-74	100 ml
Glycogen Solution(20mg/ml) from Oyster, Nuclease tested	9005-79-2	F	17110-11	1 ml
Phenol	108-95-2	R	26728-74	100 g
			26728-45	500 g
Phenol, Saturated with Citrate Buffer		R	25968-64	100 ml
Phenol, Saturated with TE Buffer		R	26829-54	100 ml
			26829-96	400 ml
Phenol, Saturated with TE Buffer		R	25969-54	100 ml
			25969-96	400 ml
Phenol:Chloroform:Isoamyl Alcohol 25:24:1 Mixed, pH5.2		R	26058-54	100 ml
			26058-96	400 ml
Phenol:Chloroform:Isoamyl Alcohol 25:24:1 Mixed, pH6.7		R	25967-74	100 ml
			25967-16	400 ml
Phenol:Chloroform:Isoamyl Alcohol 25:24:1 Mixed, pH7.9		R	25970-14	100 ml
			25970-56	400 ml
Proteinase K from Tritirachium album	39450-01-6	R	29442-14	100 mg
			29442-85	500 mg
Proteinase K Solution(>700U/ml) *Nuclease tested		R	04130-06	2 ml
			04130-64	10 ml
Sepasol-RNA I Super G for animal tissue, plant cells		R	09379-84	100 ml
			09379-97	200 ml
			09379-55	500 ml
Sepasol-RNA II Super for any blood cells		R	30487-46	100 ml
Tail Lysis Buffer *Nuclease tested		RT	06169-95	500 ml

**Sepasol-RNA II Super G**

- Easy to use : Ready-to-use green mono-phasic solution. Easy to identify interphase compared to Sepasol RNA I Super.
- Fast: Isolation procedure are completed in less than 1hr.
- High purity: The purified RNA is ready for use in standard downstream application such as RT-PCR.

① Sepasol-RNA I Super G  
② Sepasol-RNA I Super

Data on isolated total RNA from HL-60 cell by Sepasol-RNA I Super G (Left) and by Sepasol-RNA I Super (Right). The isolation was from  $5 \times 10^6$  cell.

Product Name	Yield (mg)	Purity (A <sub>260</sub> /A <sub>280</sub> )
Sepasol-RNA I Super G	32.4	2.08
Sepasol-RNA I Super	29.8	2.07

### Cloning


Product Name	CAS No.	Storage	Product No.	PKG Size
5-Bromo-4-chloro-3-indolyl- $\alpha$ -D-galactoside [X- $\alpha$ -Gal]		R	02897-62	25 mg
			02897-04	100 mg
5-Bromo-4-chloro-3-indolyl- $\beta$ -D-galactoside [X-Gal]	7240-90-6	R	05627-57	100 mg
			05627-31	1 g
			05627-44	5 g
5-Bromo-4-chloro-3-indolyl- $\beta$ -D-galactoside [X-Gal]	7240-90-6	R	05644-14	5x 20 mg
5-Bromo-4-chloro-3-indolyl- $\beta$ -D-galactoside Solution (20 mg/ml)		F	03971-71	10x 1 ml
Isopropyl- $\beta$ -D-thiogalactopyranoside [IPTG], Dioxane free	367-93-1	R	19742-81	1 g
			19742-94	10 g
100mmol/l-Isopropyl- $\beta$ -D-thiogalactopyranoside [IPTG] Solution		F	07496-91	10x 1 ml
Ribonuclease A from Bovine Pancreas *DNase and Protease tested	9001-99-4	F	30141-14	100 mg
Ribonuclease A Solution (10 mg/ml) *DNase tested		F	30100-31	1 ml
TE Buffer Solution (pH 8.0) *Nuclease and Protease tested		RT	32739-31	1 L
Water deionized & sterilized *Nuclease and Protease tested		RT	06442-95	500 ml
Water, DEPC treated, RNase tested *Nuclease and Protease tested	7732-18-5	RT	36420-61	10x 1 ml
			36420-74	50x 1 ml
Water, DEPC treated, RNase tested *Nuclease and Protease tested	7732-18-5	RT	36415-54	100 ml
			36415-41	1 L
Water, Sterile-filtered and Autoclaved, Nuclease tested	7732-18-5	RT	36421-35	500 ml

## RNase Removal

Product Name	CAS No.	Storage	Product No.	PKG Size
RNase Quiet		RT	09147-14	475 ml
RNase Quiet for Replacement		RT	09477-94	475 ml

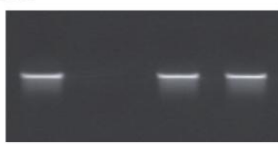
**RNase Quiet**

- Removes RNase contamination effectively
- Easy to use spray type
- Easy to wipe with no DEPC
- Non-carcinogenic with no DEPC



■ Decontamination of 1.5 ml micro-tubes

DEPC treated water	RNase A	Condition
-	-	1. (+): Add 10 µl RNase A solution (10 mg/ml) in 1.5 ml micro-tubes.
+	-	(-): Add 10 µl lysate buffer in 1.5 ml micro-tubes.
-	+	2. Add 1 ml DEPC treated water or RNase Quiet and wait for 1 minute. Remove the solution from the tube.
+	+	3. Add 25µl RNA Solution (40 µg/ml) and incubate them at 37C for 30 minutes.
		4. Analyze RNA solution by electrophoresis with 1% agarose gel including 100 ng/ml ethidium bromide and then staining gel with 200 ng/ml ethidium bromide solution.



## Biotechnology Grade (Nuclease·Protease tested, Endotoxin tested, Sterile-filtered)

Product Name	CAS No.	Storage	Product No.	PKG Size
0.5mol/l-EDTA Solution(pH 8.0)		RT	06894-14	100 ml
			06894-85	500 ml
3mol/l-Sodium Acetate Buffer Solution(pH 5.2)		RT	06893-24	100 ml
5mol/l-Sodium Chloride Solution		RT	06900-14	100 ml
TE Buffer Solution(pH 8.0)		RT	06890-54	100 ml
			06890-25	500 ml
1mol/l-Tris-HCl Buffer Solution(pH 8.0)		RT	06938-44	100 ml
			06938-15	500 ml

## Molecular Biology Grade (Nuclease·Protease tested)

Product Name	CAS No.	Storage	Product No.	PKG Size
Acetic Acid	64-19-7	RT	08885-45	500 ml
Acetone	67-64-1	RT	06268-95	500 ml
Adenosine-5'-triphosphate Disodium Salt Hydrate from Yeast	51963-61-2	F	08886-51	1 g
			08886-64	5 g
Albumin, Bovine	9048-46-8	R	08777-94	10 g
			08777-36	100 g
Ammonium Carbonate	506-87-6	A	08888-02	25 g
			08888-15	500 g
Ammonium Hydrogen Carbonate	1066-33-7	A	08887-54	100 g
			08887-25	500 g
Ammonium Peroxodisulfate	7727-54-0	RT	06284-04	10 g
BES [N,N-Bis(2-hydroxyethyl)-2-aminoethanesulfonic Acid]	10191-18-1	RT	08889-92	25 g
Bicine [N,N-Bis(2-hydroxyethyl)glycine]	150-25-4	RT	08890-52	25 g
			08890-94	250 g
Bis-tris [2,2-Bis(hydroxymethyl)-2,2',2"-nitrioltriethanol]	6976-37-0	RT	08891-42	25 g
			08891-84	100 g
Bis-tris Propane [1,3-Bis[tris(hydroxymethyl)methylamino]propane]	64431-96-5	RT	08892-32	25 g
			08892-74	100 g
5-Bromo-4-chloro-3-indolyl-β-D-galactoside [X-Gal]	7240-90-6	R	06280-44	100 mg
			06280-31	1 g
5-Bromo-4-chloro-3-indolyl-β-D-glucuronide Cyclohexylammonium Salt	114162-64-0	F	06281-76	10 mg
			06281-34	100 mg
5-Bromo-4-chloro-3-indolyl Phosphate p-Toluidine Salt	6578-06-9	R	06278-94	100 mg
			06278-81	1 g
5-Bromo-2'-deoxyuridine	59-14-3	F	08779-74	100 mg
			08779-45	500 mg
			08779-61	1 g
Calcium Chloride	10043-52-4	RT	08894-25	500 g
Calcium Chloride Dihydrate	10035-04-8	RT	08895-15	500 g
CAPS [Cyclohexylaminopropanesulfonic Acid]	1135-40-6	RT	08896-92	25 g
			08896-34	100 g
Cesium Chloride	7647-17-8	RT	08884-42	25 g
			08884-55	500 g
CHES [2-(Cyclohexylamino)ethanesulfonic Acid]	103-47-9	RT	08898-72	25 g
Chloramphenicol	56-75-7	RT	06285-94	5 g
			06285-52	25 g

■ Molecular Biology Grade (Nuclease+Protease tested)

Product Name	CAS No.	Storage	Product No.	PKG Size
Cholic Acid Sodium Salt	361-09-1	RT	06315-94	5 g
			06315-52	25 g
Citric Acid Monohydrate	5949-29-1	RT	08899-75	500 g
Cobalt(II) Chloride Hexahydrate	7791-13-1	A	08781-24	5 g
Copper(II) Chloride, Anhydrous	7447-39-4	RT	08782-14	5 g
Deoxycholic Acid Sodium Salt Monohydrate	145224-92-6	RT	02889-72	25 g
N,N-Dimethylformamide	68-12-2	RT	08900-12	25 ml
			08900-54	100 ml
			08900-25	500 ml
Dimethyl Sulfoxide	67-68-5	RT	08904-14	100 g
			08904-85	500 g
Dithiothreitol	3483-12-3	R	14128-62	25 g
Ethanol(99.5)	64-17-5	RT	08948-54	100 ml
			08948-25	500 ml
Ethylene Glycol Bis(β-aminoethylether)-N,N,N',N'-tetraacetic Acid [EGTA;GEDTA]	67-42-5	RT	08907-71	1 g
			08907-84	5 g
			08907-42	25 g
0.1M-Ethylene Glycol Bis(β-aminoethylether)-N,N,N',N'-tetraacetic Acid Disodium Salt Solution(neutral)[0.1M-EGTA·2Na]		RT	08947-35	500 ml
Formamide	75-12-7	R	16345-65	500 ml
D-Glucitol	50-70-4	RT	06286-55	500 g
Glutathione(Reduced Form), free acid	70-18-8	R	08786-61	1 g
			08786-74	5 g
			08786-32	25 g
Glycerol	56-81-5	RT	17045-94	100 ml
			17045-65	500 ml
Glycine	56-40-6	RT	17141-24	100 g
Glycogen	9005-79-2	R	08776-91	1 g
Glycylglycine	556-50-3	RT	08916-22	25 g
Guanidine Thiocyanate	593-84-0	RT	06287-32	25 g
			06287-45	500 g
Guanosine-5'-triphosphate Disodium Salt	56001-37-7	F	08921-84	100 mg
			08921-71	1 g
Hexadecyltrimethylammonium Bromide	57-09-0	A	08897-82	25 g
Imidazole	288-32-4	RT	08787-22	25 g
			08787-35	500 g
Iron(III) Chloride Hexahydrate	10025-77-1	A	08783-04	5 g
Isopropyl-β-D-thiogalactopyranoside [IPTG], Dioxane free	367-93-1	R	06289-54	100 mg
			06289-41	1 g
Lithium Lauryl Sulfate	2044-56-6	RT	08923-22	25 g
Magnesium Sulfate Heptahydrate	10034-99-8	RT	06296-25	500 g
Methanol	67-56-1	RT	06068-44	100 ml
			06068-15	500 ml
3-Methyl-1-butanol [Isoamyl Alcohol]	123-51-3	RT	06277-75	500 ml
Mineral Oil	8020-83-5	RT	23306-84	100 ml
Nickel(II) Chloride Hexahydrate	7791-20-0	RT	08784-94	5 g
Nickel(II) Sulfate Hexahydrate	10101-97-0	A	08785-84	5 g
Nonidet(R) P-40	9016-45-9	RT	23640-94	100 ml
Phenylmethylsulfonyl Fluoride [PMSF]	329-98-6	RT	06297-31	1 g
			06297-02	25 g
Polyethylene Glycol [PEG]#6,000	25322-68-3	RT	28254-85	500 g
Polyoxyethylene Lauryl Ether	9002-92-0	RT	08893-35	500 g
Polyoxyethylene Sorbitan Monolaurate	9005-64-5	RT	28353-14	50 g
			28353-85	500 g
Polyvinylpyrrolidone K-30	9003-39-8	RT	06306-72	25 g
			06306-85	500 g
Potassium Bromide	7758-02-3	RT	08924-25	500 g
2-Propanol	67-63-0	RT	03065-64	100 ml
			03065-35	500 ml
RNase Inhibitor		F	30260-54	2500 units
			30260-96	12500 units
Rubidium Chloride	7791-11-9	RT	08951-94	5 g
Sodium Acetate	127-09-3	RT	31137-12	25 g
Sodium Acetate Trihydrate	6131-90-4	RT	08929-75	500 g
Sodium Dextran Sulfate	9011-18-1	R	03879-72	25 g
			03879-14	100 g
Sodium Dihydrogenphosphate, Anhydrous	7558-80-7	RT	08939-45	500 g

### ■ Molecular Biology Grade (Nuclease·Protease tested)

Product Name	CAS No.	Storage	Product No.	PKG Size
Sodium Hydrogen Carbonate	144-55-8	RT	08932-15	500 g
Sodium Hydroxide	1310-73-2	RT	06338-75	500 g
Sodium Iodide	7681-82-5	RT	08949-02	25 g
Sodium Lauryl Sulfate [Sodium Dodecyl Sulfate;SDS]	151-21-3	RT	08933-92 08933-34 08933-05	25 g 100 g 500 g
tri-Sodium Phosphate 12-Water	10101-89-0	RT	08940-05	500 g
Sodium Thiocyanate	540-72-7	A	08950-62 06339-52	25 g 25 g
TAPS [N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic Acid]	29915-38-6	RT	08941-82	25 g
TES [N-Tris(hydroxymethyl)methyl-2-aminoethanesulfonic Acid]	7365-44-8	RT	08942-72 08942-14	25 g 100 g
Tris(2-carboxyethyl)phosphine Hydrochloride	51805-45-9	R	06342-21	1 g
Trypsin Inhibitor from Soybean	9035-81-8	F	08943-62 08943-04	25 mg 100 mg
Zinc Chloride	7646-85-7	RT	08780-34	5 g

### ■ Molecular Biology Reagent (Solution Type, Nuclease·Protease Tested)

Product Name	CAS No.	Storage	Product No.	PKG Size
Denhardt's Stock Solution(50x) [50x Denhardt's Solution]		F	10727-74	50 ml
1mol/l-Dithiothreitol Solution [1mol/l-DTT Solution] ※		F	14130-41	1 ml
0.5mol/l-EDTA Solution(pH 8.0) ※※		RT	14347-21	1 L
8mol/l-Guanidine Hydrochloride Solution ※※	50-01-1	RT	17356-24	100 ml
6mol/l-Guanidine Thiocyanate Solution ※	593-84-0	RT	16689-04	100 ml
100g/l-Hexadecyltrimethylammonium Bromide Solution ※		RT	17472-94	100 ml
Hybridization Solution ※		RT	04376-64	100 ml
8mol/l-Lithium Chloride Solution ※	7447-41-8	RT	20077-84	5x10 ml
1mol/l-Magnesium Chloride Solution, Sterile-filtered and Autoclaved ※	7791-18-6	RT	20942-34	5x10 ml
1mol/l-Magnesium Sulfate Solution, Sterile-filtered and Autoclaved ※		RT	20941-44	5x10 ml
MOPS Buffer Stock Solution(10x)(pH 7.0) ※		RT	23442-81	1 L
Phosphate Buffered Saline(10x)(pH 7.4), DEPC treated, Nuclease tested ※		RT	27576-21	1 L
3mol/l-Sodium Acetate Buffer Solution(pH 5.2) ※※		RT	31138-31	1 L
5mol/l-Sodium Chloride Solution ※※	7647-14-5	RT	31334-51	1 L
SSC Buffer Stock Solution(20x) [20x SSC] ※※		RT	32146-91 32146-04	1 L 5 L
SSPE Buffer Stock Solution(20x) [20x SSPE] ※※		RT	32149-61	1 L
Tris Buffered Saline(10x)(pH 7.4) ※※		RT	35439-71	1 L
1mol/l-Tris-HCl Buffer Solution(pH 7.6) ※※		RT	35436-01	1 L
1mol/l-Tris-HCl Buffer Solution(pH 8.0) ※※		RT	35435-11	1 L

※※: Nuclease·Protease tested, ※: Nuclease tested

Biotechnology Grade		
	Biotechnology Grade	Molecular Biology Grade
Sterilization method	Aseptic filtration	Autoclave sterilization
Inspection items	<ul style="list-style-type: none"> <li>• Nuclease and Protease tested</li> <li>• Sterile tested</li> <li>• Endotoxin tested</li> </ul>	<ul style="list-style-type: none"> <li>• Nuclease and Protease tested</li> </ul>
Package	Pet bottle container 	Glass container 

## 【Cell Culture】

### ■ Cell Culture Medium

Product Name	Storage	Product No.	PKG Size
DMEM(1.0g/l Glucose) with L-Gln and Sodium Pyruvate, liquid	R	08456-65	500 ml
DMEM(1.0g/l Glucose) with Sodium Pyruvate, without L-Gln and Phenol Red, liquid	R	08490-05	500 ml
DMEM(4.5g/l Glucose) with L-Gln and HEPES, without Sodium Pyruvate, liquid	R	08457-55	500 ml
DMEM(4.5g/l Glucose) with L-Gln and Sodium Pyruvate, liquid	R	08458-45	500 ml
DMEM(4.5g/l Glucose) with L-Gln, without Sodium Pyruvate, liquid	R	08459-35	500 ml
DMEM(4.5g/l Glucose) without L-Gln, Sodium Pyruvate and Phenol Red, liquid	R	08489-45	500 ml
DMEM(4.5g/l Glucose) without L-Gln and Sodium Pyruvate, liquid	R	08488-55	500 ml
DMEM/Ham's F-12 with L-Gln, Sodium Pyruvate and HEPES, liquid	R	08460-95	500 ml
DMEM/Ham's F-12 with L-Gln, Sodium Pyruvate and HEPES, without Phenol Red, liquid	R	05177-15	500 ml
Ham's F-12 with L-Gln, liquid	R	17458-65	500 ml
MEM with Earle's Salts and L-Gln, liquid	R	21442-25	500 ml
MEM with Earle's Salts, L-Gln and Non-Essential Amino Acids, liquid	R	21443-15	500 ml
α-MEM with L-Gln, Ribonucleosides and Deoxyribonucleosides, liquid	R	21444-05	500 ml
α-MEM with L-Gln, without Ribonucleosides and Deoxyribonucleosides, liquid	R	21445-95	500 ml
RPMI 1640 with L-Gln, liquid	R	30264-85	500 ml
RPMI 1640 with L-Gln, without Phenol Red, liquid	R	06261-65	500 ml
RPMI 1640 with L-Gln and HEPES, liquid	R	30263-95	500 ml
RPMI 1640 without L-Gln, liquid	R	05176-25	500 ml

#### Cell Culture Medium

- Sterilized by membrane filter (pore size 0.1 μm)
- Sterility tested (for Bacteria, Fungus and Mycoplasma)
- Endotoxin tested
- pH 7.1-7.5



### ■ Antibiotic

Product Name	CAS No.	Storage	Product No.	PKG Size
Actinomycin D Solution(1mg/ml)		F	00393-41	1 ml
Antibiotic-Antimycotic Mixed Stock Solution(100x)		F	02892-54	100 ml
Antibiotic-Antimycotic Mixed Stock Solution(100x)(Stabilized)		F	09366-44	100 ml
G 418 Disulfate	108321-42-2	RT	08973-01	1 g
			08973-14	5 g
G 418 Disulfate Aqueous Solution (Ready to Use)	108321-42-2	R	16513-84	20 ml
			16513-26	100 ml
G 418 Disulfate Aqueous Solution	108321-42-2	R	09380-86	20 ml
(Water solution, Titer: 50mg/ml, Steril-filtered, Mycoplasma and Endotoxin tested, Cell culture tested)			09380-44	100 ml
Gentamicin Sulfate	1405-41-0	R	08975-81	1 g
			08975-94	5 g
Gentamicin Sulfate Solution(10mg/ml)	1405-41-0	R	16672-04	10 ml
Hygromycin B Solution		R	09287-84	20 ml
Kanamycin Monosulfate	25389-94-0	RT	08976-71	1 g
			08976-84	5 g
Mitomycin C Solution(1mg/ml)		F	20898-21	1 ml
Penicillin-Streptomycin-Glutamine Mixed Solution		F	06168-34	100 ml
Penicillin-Streptomycin Mixed Solution *100x solution		F	26253-84	100 ml
Penicillin-Streptomycin Mixed Solution(Stabilized)		F	09367-34	100 ml
Penicillin-Streptomycin Mixed Solution *50x solution		F	26252-94	100 ml

## ■ Supplement

Product Name	CAS No.	Storage	Product No.	PKG Size
200mmol/l L-Alanyl-L-glutamine Solution(100x)		F	04260-64	100 ml
D-PBS(-) without Ca and Mg, liquid		RT	14249-95	500 ml
D-PBS(+)(Preparation Reagent(Ca, Mg Solution))(100x)		RT	02492-94	30 ml
200mM-L-Glutamine Stock Solution		F	16948-04	100 ml
HBSS(+) with Ca, Mg and Phenol Red, liquid		R	17459-55	500 ml
HBSS(-) without Ca and Mg, with Phenol Red, liquid		RT	17460-15	500 ml
1mol/l-HEPES Buffer Solution		R	17557-94	100 ml
MEM Non-Essential Amino Acids Solution(100x)		R	06344-14	20 ml
			06344-56	100 ml
100mM-Sodium Pyruvate Solution(100x)		R	06977-34	100 ml
apo-Transferrin from Human	11096-37-0	R	34401-84	100 mg
			34401-55	500 mg

## ■ Cell Dissociation

Product Name	CAS No.	Storage	Product No.	PKG Size
2.5g/l-Trypsin Solution		F	35555-54	100 ml
5.0g/l-Trypsin/5.3mmol/l-EDTA Solution		F	35556-44	100 ml
2.5g/l-Trypsin/1mmol/l-EDTA Solution		F	35554-64	100 ml
2.5g/l-Trypsin/1mmol/l-EDTA Solution, with Phenol Red		F	32777-44	100 ml
0.5g/l-Trypsin/0.53mmol/l-EDTA Solution		F	35553-74	100 ml
0.5g/l-Trypsin/0.53mmol/l-EDTA Solution, with Phenol Red		F	32778-34	100 ml

## ■ Cell Counting

Product Name	CAS No.	Storage	Product No.	PKG Size
Cell Count Reagent SF		R	07553-15	500 tests
for 500 tests: 5 ml (1vial), for 2500 tests: 5 ml (5 vials)			07553-44	2500 tests
MTT Cell Count Kit		F	23506-80	1 kit
0.5%-Trypan Blue Stain Solution		RT	29853-34	100 ml

## ■ Microbial Media

Product Name	CAS No.	Storage	Product No.	PKG Size
Agar, powder	9002-18-0	RT	01028-85	500 g
Agar Purified, powder	9002-18-0	RT	01162-15	500 g
Extract Yeast Dried	8013-01-2	RT	15838-45	500 g
LB Agar, Lennox		RT	20067-85	500 g
LB Agar, Miller		RT	20069-65	500 g
LB Broth, Lennox		RT	20066-95	500 g
LB Broth, Miller		RT	20068-75	500 g
Plusgrow II		RT	08202-04	100 g
			08202-75	500 g
Tryptone		RT	35640-95	500 g

## ■ Other

Product Name	CAS No.	Storage	Product No.	PKG Size
Colcemid Solution(10µg/ml)		R	09356-74	10 ml
Dimethyl Sulfoxide (Sterile-filtered, Endotoxin tested, Ampule)	67-68-5	RT	13408-64	5x5 ml
0.2g/l-EDTA Solution		R	14367-74	100 ml
ELISA POD Substrate TMB Kit(Popular) (for 200ml)		R	05298-80	1 kit
ELISA POD Substrate TMB Solution(Easy)		R	05299-54	100 ml
Paraffin Liquid (for Tissue culture)	8012-95-1	RT	26137-85	500 ml
Paraffin Liquid, light (for Tissue culture)	8012-95-1	RT	26144-85	500 ml
50mmol/l-Tris-HCl Buffer Solution(10x)(pH 7.6) with Detergent and Sodium Chloride		R	05269-31	1 L

### Supplement

- Sterilized by membrane filter (pore size 0.2 µm)
- Sterility tested (for Bacteria, Fungus and Mycoplasma)
- Endotoxin tested



MEM Non-Essential Amino Acids Solution (100x)

# [Nucleic Acid Electrophoresis]

## ■ Agarose

Product Name	CAS No.	Storage	Product No.	PKG Size
Agarose for $\geq 1$ kbp fragment	9012-36-6	RT	01163-76 01163-05	100 g 500 g
Agarose for $\geq 1$ kbp fragment(Fine Powder)	9012-36-6	RT	02468-66 02468-95	100 g 500 g
Agarose-RE for $\geq 1$ kbp fragment, for Restriction and Ligation	9012-36-6	RT	01149-76 01149-05	100 g 500 g
Agarose for 150~1,500bp fragment	9012-36-6	RT	01153-22 01153-64	25 g 100 g
Agarose for 50~800bp fragment	9012-36-6	RT	01147-12 01147-96	25 g 100 g
Agarose -LE	9012-36-6	RT	01132-34	100 g
Agarose -LE, Classic Type $\geq 1$ kbp fragment	9012-36-6	RT	01157-66 01157-95	100 g 500 g
Agarose -ME	9012-36-6	RT	01133-24	100 g
Agarose -ME, Classic Type $\geq 1$ kbp fragment	9012-36-6	RT	01158-56 01158-85	100 g 500 g

## ■ Running Buffer (Nuclease and Protease tested)

Product Name	CAS No.	Storage	Product No.	PKG Size
Tris-Acetate-EDTA Buffer(10x) [TAE Buffer]		RT	35430-61 35430-74	1 L 5 L
Tris-Acetate-EDTA Buffer(50x) [TAE Buffer]		RT	32666-81	1 L
Tris-Borate-EDTA Buffer(5x) [TBE Buffer]		RT	35432-41	1 L
Tris-Borate-EDTA Buffer(10x) [TBE Buffer]		RT	35440-31 35440-44	1 L 5 L

## ■ DNA Ladder Marker

Product Name	CAS No.	Storage	Product No.	PKG Size
DNA Ladder One(Broad Range) (Ready To Use)		R	08362-85	500 $\mu$ l
100bp DNA Ladder One (Ready To Use)		R	07908-75	500 $\mu$ l
1kbp DNA Ladder One (Ready To Use)		R	08232-85	500 $\mu$ l

## ■ Nucleic Acid Staining

Product Name	CAS No.	Storage	Product No.	PKG Size
Ethidium Bromide Solution (10 mg/ml)	1239-45-8	R	14631-94	10 ml
Ethidium Bromide Solution (0.44 mg/ml) (Eye drop bottle)	1239-45-8	R	02393-94	10 ml

**DNA Ladder Marker**

- DNA Ladder one (Broad Range) ranging from 0.1kbp to 10kbp
- The 0.5, 1, 3 kbp bands have increased intensity to serve as reference bands
- Ready-to-use markers containing 2 dyes.


DNA Ladder One (Broad Range)	100bp DNA Ladder One	1kbp DNA Ladder One																																																																																												
<table border="1"> <thead> <tr> <th>kbp</th> <th>DNA (ng) approx.</th> </tr> </thead> <tbody> <tr><td>10</td><td>25</td></tr> <tr><td>8</td><td>30</td></tr> <tr><td>6</td><td>30</td></tr> <tr><td>5</td><td>30</td></tr> <tr><td>4</td><td>30</td></tr> <tr><td>3</td><td>70</td></tr> <tr><td>2</td><td>30</td></tr> <tr><td>1.5</td><td>35</td></tr> <tr><td>1.2</td><td>30</td></tr> <tr><td>1</td><td>70</td></tr> <tr><td>0.9</td><td>30</td></tr> <tr><td>0.8</td><td>30</td></tr> <tr><td>0.7</td><td>30</td></tr> <tr><td>0.6</td><td>30</td></tr> <tr><td>0.5</td><td>90</td></tr> <tr><td>0.4</td><td>30</td></tr> <tr><td>0.3</td><td>40</td></tr> <tr><td>0.2</td><td>40</td></tr> <tr><td>0.1</td><td>50</td></tr> </tbody> </table>	kbp	DNA (ng) approx.	10	25	8	30	6	30	5	30	4	30	3	70	2	30	1.5	35	1.2	30	1	70	0.9	30	0.8	30	0.7	30	0.6	30	0.5	90	0.4	30	0.3	40	0.2	40	0.1	50	<table border="1"> <thead> <tr> <th>DNA (ng) bp approx.</th> <th>DNA (ng)</th> </tr> </thead> <tbody> <tr><td>1,500</td><td>30</td></tr> <tr><td>1,200</td><td>30</td></tr> <tr><td>1,000</td><td>70</td></tr> <tr><td>900</td><td>30</td></tr> <tr><td>800</td><td>30</td></tr> <tr><td>700</td><td>30</td></tr> <tr><td>600</td><td>30</td></tr> <tr><td>500</td><td>90</td></tr> <tr><td>400</td><td>30</td></tr> <tr><td>300</td><td>40</td></tr> <tr><td>200</td><td>40</td></tr> <tr><td>100</td><td>50</td></tr> </tbody> </table>	DNA (ng) bp approx.	DNA (ng)	1,500	30	1,200	30	1,000	70	900	30	800	30	700	30	600	30	500	90	400	30	300	40	200	40	100	50	<table border="1"> <thead> <tr> <th>DNA (ng) kbp approx.</th> <th>DNA (ng)</th> </tr> </thead> <tbody> <tr><td>10</td><td>25</td></tr> <tr><td>8</td><td>30</td></tr> <tr><td>6</td><td>35</td></tr> <tr><td>5</td><td>35</td></tr> <tr><td>4</td><td>35</td></tr> <tr><td>3</td><td>80</td></tr> <tr><td>2</td><td>35</td></tr> <tr><td>1.5</td><td>35</td></tr> <tr><td>1</td><td>85</td></tr> <tr><td>0.7</td><td>35</td></tr> <tr><td>0.5</td><td>35</td></tr> <tr><td>0.3</td><td>35</td></tr> </tbody> </table>	DNA (ng) kbp approx.	DNA (ng)	10	25	8	30	6	35	5	35	4	35	3	80	2	35	1.5	35	1	85	0.7	35	0.5	35	0.3	35
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**Ethidium Bromide Solution (0.44 mg/ml)**

- Can use for nucleic acid stain solution or electrophoresis buffer solution
- Easy and Safe to use in eye drop bottle

Protocol:

Concentration	Preparative Solution	Ethidium Bromide Solution
0.1 $\mu$ g/ml	200 ml	1 drop
0.2 $\mu$ g/ml	100 ml	1 drop
0.5 $\mu$ g/ml	40 ml	1 drop



# 【Protein Electrophoresis】

## ■ Polyacrylamide Gel Preparation

Product Name	CAS No.	Storage	Product No.	PKG Size
Acrylamide(monomer) *Nuclease and Protease tested	79-06-1	RT	06114-24	100 g
			06114-95	500 g
			06114-11	1 kg
Acrylamide(monomer)	79-06-1	RT	00809-85	500 g
30(w/v)%-Acrylamide/Bis Mixed Solution(19:1) , Nuclease tested		R	07913-95	500 ml
40(w/v)%-Acrylamide/Bis Mixed Solution(19:1) , Nuclease tested		R	00857-55	500 ml
30(w/v)%-Acrylamide/Bis Mixed Solution(29:1)		R	07899-05	500 ml
40(w/v)%-Acrylamide/Bis Mixed Solution(29:1)		R	00855-75	500 ml
30(w/v)%-Acrylamide/Bis Mixed Solution(37.5:1)		R	07900-55	500 ml
40(w/v)%-Acrylamide/Bis Mixed Solution(37.5:1)		R	00856-65	500 ml
Ammonium Peroxodisulfate	7727-54-0	R	02627-34	10 g
10(w/v)%-Ammonium Peroxodisulfate Solution	7727-54-0	F	02634-34	10 ml
N,N'-Methylenebisacrylamide *Nuclease and Protease tested	110-26-9	R	22407-52	25 g
N,N'-Methylenebisacrylamide	110-26-9	R	22402-02	25 g
10%-SDS Solution [10%-Sodium Lauryl Sulfate Solution]	151-21-3	RT	30562-04	100 ml
Separating Gel Buffer Solution(4x) for SDS-PAGE		RT	30651-05	500 ml
Separating Gel Overlay Solution for PAGE		RT	09316-94	20 ml
Sodium Lauryl Sulfate [Sodium Dodecyl Sulfate;SDS] *Purity: 99.5%	151-21-3	RT	30400-72	25 g
			30400-85	500 g
Sodium Lauryl Sulfate [Sodium Dodecyl Sulfate;SDS] *Purity: 99%	151-21-3	RT	31607-65	500 g
Sodium Lauryl Sulfate granular [Sodium Dodecyl Sulfate;SDS]	151-21-3	RT	02873-62	25 g
			02873-04	100 g
Stacking Gel Buffer Solution(4x) for SDS-PAGE		R	09267-44	100 ml
Stacking Gel Buffer Solution(4x) for SDS-PAGE		R	32158-25	500 ml
Stacking Gel Buffer Solution(4x) with Dye for SDS-PAGE		R	09268-34	100 ml
N,N,N',N'-Tetramethylethylenediamine	110-18-9	RT	33401-72	25 g
Tris(hydroxymethyl)aminomethane *Nuclease and Protease tested	77-86-1	RT	35434-05	500 g
			35434-21	1 kg
			35434-34	10 kg (10x 1kg)
Tris(hydroxymethyl)aminomethane	77-86-1	RT	35410-34	100 g

## ■ Loading Buffer

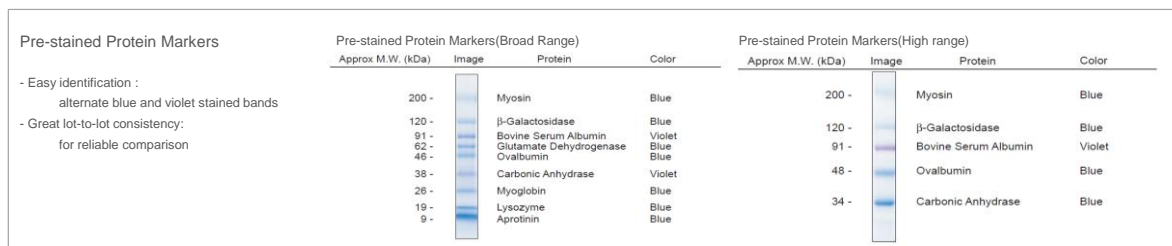
Product Name	CAS No.	Storage	Product No.	PKG Size
Sample Buffer Solution with 2-ME(2x) for SDS-PAGE		R	30566-22	25 ml
Sample Buffer Solution without 2-ME(2x) for SDS-PAGE		R	30567-12	25 ml
Sample Buffer Solution with Reducing Reagent(6x) for SDS-PAGE		R	09499-14	5 ml
Sample Buffer Solution without Reducing Reagent(6x) for SDS-PAGE		R	09500-64	5 ml

## ■ Running Buffer

Product Name	CAS No.	Storage	Product No.	PKG Size
Glycine *Nuclease and Protease tested	56-40-6	RT	17141-95	500 g
Glycine	56-40-6	RT	17128-14	100 g
Running Buffer Solution(10x) for PAGE		RT	30340-91	1 L
Running Buffer Solution(10x) for SDS-PAGE, Tris-Glycine		RT	30329-61	1 L

## ■ Protein Molecular Weight Marker

Product Name	CAS No.	Storage	Product No.	PKG Size
Pre-stained Protein Markers(Broad Range) for SDS-PAGE		F	02525-35	500 µl
Pre-stained Protein Markers(High Range) for SDS-PAGE		F	26039-75	500 µl
Pre-stained Protein Markers(Low Range) for SDS-PAGE		F	28944-74	5x100 µl
			28941-75	500 µl
Protein Markers(M.W. 6,500-200,000)(10x) for SDS-PAGE		F	29458-24	200 µl



## ■ Protein Staining

Product Name	CAS No.	Storage	Product No.	PKG Size
CBB Stain One (Ready To Use)		RT	04543-51 04543-64	1 L 5 L
Coomassie Brilliant Blue R-250	6104-59-2	RT	09408-52	25 g
Dispotray (for minigel staining)		RT	06563-44	20 pieces
Gel-Negative Stain Kit for SDS-PAGE		RT	16660-41	1 kit
Ponceau S	6226-79-5	RT	28322-72	25 g
Rapid Stain CBB Kit		RT	30035-14	1 set
Sil-Best Destain Kit		R	07983-30	1 kit
Sil-Best Stain-Neo for Protein and Nucleic Acid/PAGE		R	05773-11	1 set
Sil-Best Stain One		R	06865-81	1 set

## 【Immunochemistry】

### ■ Blocking

Product Name	CAS No.	Storage	Product No.	PKG Size
Blocking One		R	03953-95	500 ml
Blocking One-P		R	05999-84	200 ml

### ■ Chemiluminescent Substrate

Product Name	CAS No.	Storage	Product No.	PKG Size
Chemi-Lumi One Super for 1,000cm <sup>2</sup> membrane		R	02230-30	1 kit
Chemi-Lumi One L for 4,000cm <sup>2</sup> membrane		R	07880-70	1 kit

### ■ Signal Enhancer

Product Name	CAS No.	Storage	Product No.	PKG Size
Signal Enhancer HIKARI for Western Blotting and ELISA (50ml)		R	02267-41	1 set
Signal Enhancer HIKARI for Western Blotting and ELISA (250ml)		R	02270-81	1 set

### ■ Reprobing

Product Name	CAS No.	Storage	Product No.	PKG Size
WB Stripping Solution		R	05364-55	500 ml
WB Stripping Solution Strong		R	05677-65	500 ml

**Chemi-Lumi One Super**

- High sensitivity detects proteins at Mid-femtogram level with low background
- Fast rapid substrate processing of blot

Myosin (pg)    2.5    0.63    0.16    0.04                      2.5    0.63    0.16    0.04

**Chemi-Lumi One Super is much more sensitive than Competitor A.**  
 Western blot of identical biotinylated myosin samples probed with respective streptavidin-HRP conjugates. The membranes were incubated with substrate that was prepared according to the manufacturers' instructions. The membranes were exposed to film for 2 minutes

### ■ Epitope-Tag Antibody

Product Name	CAS No.	Storage	Product No.	PKG Size
Anti-c-Myc(Mouse IgG1-κ), Monoclonal(MC045), AS		R	04362-76 04362-34	50 µg 200 µg
Anti-c-Myc(Mouse IgG1-κ), Monoclonal(MC045), AS, Agarose Conjugate		R	04145-55	500 µg
Anti-c-Myc(Mouse IgG1-κ), Monoclonal(MC045), AS, POD Conjugated		R	04554-24	50 µg
Anti-GFP(Mouse IgG1-κ), Monoclonal(GF200), AS		R	04363-66 04363-24	50 µg 200 µg
Anti-GFP(Mouse IgG1-κ), Monoclonal(GF200), AS, POD Conjugated		R	05178-34	50 µg
Anti-GFP(Rat IgG2a), Monoclonal(GF090R), CC		R	04404-26 04404-84	50 µg 200 µg
Anti-GST(Mouse IgG2a-κ), Monoclonal(GS019), AS		R	04435-84 04435-26	50 µg 200 µg
Anti-GST(Mouse IgG2a-κ), Monoclonal(GS019), AS, POD Conjugate		R	04559-74	50 µg
Anti-HA(Mouse IgG1-κ), Monoclonal(HA124), AS		R	06340-96 06340-54	50 µg 200 µg
Anti-6xHis(Mouse IgG1-κ), Monoclonal(HI192), AS		R	04428-26 04428-84	50 µg 200 µg
Anti-6xHis(Mouse IgG1-κ), Monoclonal(HI192), AS, POD Conjugated		R	04546-34	50 µg
Anti-V5(Mouse IgG1-κ), Monoclonal(V5005), AS		R	04434-94 04434-36	50 µg 200 µg
Anti-V5(Mouse IgG1-κ), Monoclonal(V5005), AS, POD Conjugated		R	04578-24	50 µg

## Affinity Gel

Product Name	CAS No.	Storage	Product No.	PKG Size
COSMOGEL Ig-Accept Protein A		R	02179-14 02179-72	5 ml 25 ml
COSMOGEL Ig-Accept Protein G		R	02198-64 02198-22	5 ml 25 ml
COSMOGEL Ig-Accept Thiophilic		R	02253-66 02253-24	10 ml 100 ml

## Cleavage Enzyme

Product Name	CAS No.	Storage	Product No.	PKG Size
TurboTEV (TEV Protease) (2mg/ml, 1,000 units: 0.1 mg)		F	NU0102S	1,000 units
TurboTEV (TEV Protease) (2mg/ml, 10,000 units: 1 mg)		F	NU0102M	10,000 units
TurboTEV (TEV Protease) (2mg/ml, 100,000 units: 10 mg)		F	NU0102L	100,000 units
Turbo3C (HRV3C Protease) (2mg/ml, 10,000 units: 10 mg)		F	NU0101M	10,000 units

**TurboTEV (TEV Protease)**

- Affordable ultra-pure TEV Protease
- Activity over a broad temperature (4C to 37C) and pH (6.5 to 8.5) range
- Both GST and His tags to facilitate its removal from the digested protein sample

A 49 kDa GST-fusion protein (C) at 1 mg/ml is incubated with TurboTEV or TEV Protease at a ratio of (1) 1:50, (2) 1:100, (3) 1:200 (w/w) in a buffer of 25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 14 mM 2-mercaptoethanol at 4C for 16 hours. The cleaved products are 27 kDa and 22 kDa. TEV is a competitor TEV product

## Fixed Solution

Product Name	CAS No.	Storage	Product No.	PKG Size
10%-Formaldehyde Neutral Buffer Solution		RT	37152-51	1 L
4%-Paraformaldehyde Phosphate Buffer Solution		R	09154-14 09154-85	5x10 ml 500 ml

## Detection

Product Name	CAS No.	Storage	Product No.	PKG Size
Peroxidase Stain DAB Kit(Brown Stain)		R	25985-50	1 kit
Peroxidase Stain DAB Kit(Dark gray Stain)		R	25986-40	1 kit
Peroxidase Stain Kit for Immuno-blotting, Nuclease tested		F	26652-70	1 kit
Streptavidin Biotin Complex Peroxidase Kit		R	30462-30	1 kit

## Other

Product Name	CAS No.	Storage	Product No.	PKG Size
50mmol/l-Tris-HCl Buffer Solution(10x)(pH 7.6) with Detergent and Sodium Chloride		R	09288-45	500 ml

# Protein Research

## Inhibitor Cocktail

Product Name	CAS No.	Storage	Product No.	PKG Size
Phosphatase Inhibitor Cocktail (100x)		R	07574-61	1 ml
Phosphatase Inhibitor Cocktail(EDTA free) (100x)		R	07575-51	1 ml
Protease Inhibitor Cocktail(EDTA free) (100x)		F	03969-21	5x1 ml
Protease Inhibitor Cocktail for General Use (100x)		F	04080-11	5x1 ml
Protease Inhibitor Cocktail for Use with Mammalian Cell and Tissue Extracts (100x)		F	25955-11	5x1 ml

## Protein Assay

Product Name	CAS No.	Storage	Product No.	PKG Size
Protein Assay Bicinchoninate Kit		RT	06385-00	1 kit
Protein Assay CBB Solution(5x)		RT	29449-44	100 ml
Protein Assay CBB Solution(5x)		RT	29449-15	500 ml

## Denaturant / Solubilization

Product Name	CAS No.	Storage	Product No.	PKG Size
CHAPS [3-[[3-Cholamidopropyl]dimethylammonio]-1-propanesulfonate]	75621-03-3	RT	07957-51 07957-64 07957-22	1 g 5 g 25 g
Dithiothreitol *Nuclease tested	3483-12-3	R	14128-46 14128-91 14128-04	100 mg 1 g 5 g

### ■ Denaturant / Solubilization

Product Name	CAS No.	Storage	Product No.	PKG Size
Dithiothreitol	3483-12-3	R	14112-81	1 g
			14112-94	5 g
			14112-52	25 g
Guanidine Hydrochloride	50-01-1	RT	17353-25	500 g
2-Mercaptoethanol	60-24-2	RT	21438-82	25 g
1-O-n-Octyl-β-D-glucopyranoside	29836-26-8	R	25535-11	1 g
			25535-24	5 g
			25535-82	25 g
n-Octyl-β-D-thioglucoopyranoside [n-Octyl-β-D-thioglucoside]	85618-21-9	R	25543-01	1 g
			25543-14	5 g
RIPA Buffer		F	08714-04	1 set
Tris(2-carboxyethyl)phosphine Hydrochloride	51805-45-9	R	07277-61	1 g
Urea *Nuclease and Protease tested	57-13-6	RT	35940-65	500 g
			35940-81	1 kg

### ■ Good's Buffer

Product Name	CAS No.	Storage	Product No.	PKG Size
HEPES [2-[4-(2-Hydroxyethyl)-1-piperazinyl]ethanesulfonic Acid]	7365-45-9	RT	17546-34	100 g
			17546-05	500 g
HEPES [2-[4-(2-Hydroxyethyl)-1-piperazinyl]ethanesulfonic Acid]	7365-45-9	RT	17514-86	100 g
			17514-15	500 g
MOPS [3-(N-Morpholino)propanesulfonic Acid]	1132-61-2	RT	23438-64	100 g
			23438-35	500 g
MOPS [3-(N-Morpholino)propanesulfonic Acid]	1132-61-2	RT	23415-54	100 g
			23415-25	500 g
PIPES [Piperazine-1,4-bis(2-ethanesulfonic Acid)]	5625-37-6	RT	28137-54	100 g
PIPES [Piperazine-1,4-bis(2-ethanesulfonic Acid)]	5625-37-6	RT	28104-16	100 g

### ■ Other

Product Name	CAS No.	Storage	Product No.	PKG Size
Tris-Glycine Buffer Solution(10x)(pH 8.3)		RT	09422-81	1 L

## (Fluorescent Reagent)

### ■ Calcium Indicator

Product Name	CAS No.	Storage	Product No.	PKG Size
Calcein-AM	148504-34-1	F	06735-81	1 mg
Fluo 3-AM Special Packaging	121714-22-5	F	16053-01	1 set
Fura 2-AM Special Packaging	108964-32-5	F	16439-61	1 set

### ■ Nuclear Staining

Product Name	CAS No.	Storage	Product No.	PKG Size
Bisbenzimidazole H33258 Fluorochrome Trihydrochloride DMSO Solution	23491-45-4	F	04907-91	1 ml (1 mg/ml)
Bisbenzimidazole H33342 Fluorochrome Trihydrochloride DMSO Solution	23491-52-3	F	04915-81	1 ml (1 mg/ml)
Propidium Iodide DMSO Solution	25535-16-4	F	29004-41	1 ml (1 mg/ml)

(Storage)

A : Cool and dark  
 RT : Room temperature  
 R : Refrigerator  
 F : Freezer

For research use only, not intended for diagnostic or drug use.

## NACALAI TESQUE, INC.

Nijo Karasuma, Nakagyo-ku, Kyoto 604-0855 JAPAN

TEL : +81-(0)75-251-1730

FAX : +81-(0)75-251-1763

Website : www.nacalai.com

E-mail : info.intl@nacalai.com