

Amplification Technology

Electrophoresis

Enzymes

Hybridization

Protein Chemistry

Tissue Culture



Molecular Diagnostics



Amplification Technology	3
Electrophoresis - Nucleic Acid	5
Enzymes	8
Hybridization	11
Protein Chemistry	12
Tissue Culture	14

Molecular diagnostics is the fastest-growing field of laboratory science, utilizing the principles and techniques of molecular biology to study the underlying molecular defects in inherited and acquired disease. Molecular diagnostics impacts many medical disciplines including oncology, infectious diseases, clinical immunology, clinical hematology, clinical microbiology, predictive genetic testing, molecular virology, pharmacogenetics, and tissue pathology.

Selecting the best reagents and kits for your protocols will give your molecular diagnostics research a better chance to succeed by eliminating variables that may alter the results of your experiments. **Fisher BioReagents products are ultrapure and functionally tested for molecular biology applications.** This guide is designed to help you select the right products for your specific test procedures.

New Products

New!

Fisher BioReagents Absolute Ethanol (200 proof) is an ultrapure molecular biology grade ethanol used for the purification and precipitation of biomolecules such as nucleic acids and proteins. Also, it is used in histology to prepare staining and destaining reagents and for dehydrating tissues prior to embedding.

Cat. No.	Size
Absolute Ethanol (200 proof), Molecular Biology Grade	
BP2818-100	100mL
BP2818-500	500mL
BP2818-4	4L

New!

Ultrapure Isopropanol, Molecular Biology Grade, can be used in fundamental applications such as purification and precipitation of nucleic acids and proteins, and preservation of biological specimens.

Cat. No.	Size
Isopropanol, Molecular Biology Grade	
BP2618-500	500mL
BP2618-1	1L
BP2618-212	2.5L
BP2618-4	4L



New!

Addition of 15 Antibiotics and Antimycotics

Catalog No.	Product Description	Size
BP2950-1	Bacitracin	1g
BP2951-1	Cefotaxime Sodium Salt	1g
BP2952-1MU	Hygromycin B	1mu
BP2949-5	Nystatin	5g
BP2953-1	Paromomycin sulfate	1g
BP2955-5	Penicillin G Sodium Salt	5g
BP2959-50	Penicillin/Streptomycin Mixture	50mL
BP2960-50	Penicillin/Streptomycin/Glutamine Mixture	50mL
BP2961-50	Penicillin/Streptomycin/Neomycin Mixture	50mL
BP2962-100	Phleomycin	100mg
BP2954-1	Polymixin B Sulfate	1g
BP2956-100	Puromycin dihydrochloride	100mg
BP2963-1	Rapamycin	1mg
BP2957-1	Spectinomycin dihydrochloride pentahydrate	1g
BP2958-1	Vancomycin hydrochloride	1g

See page 15 for the rest of our antibiotics portfolio.

New!

Water, Molecular Biology Grade is ideal for many fundamental procedures such as PCR, electrophoresis, DNA sequencing, and buffers for enzymatic analyses.

Cat. No.	Size
Water (0.1 micron filtered), Molecular Biology Grade	
BP2819-100	100mL
BP2819-1	1L
BP2819-4	4L
BP2819-10	10L
BP2819-20	20L



Isolation of RNA and/or DNA from biological samples is a key preliminary step to subsequent molecular diagnostic testing. Quality, purity, and concentration of the isolated nucleic acids can be optimized with careful selection of sample source and extraction method. Indeed,

most protocols can be classified into one of a few categories that involve either liquid- or solid-phase extraction. In general, solid phase extraction procedures are more commonly used because of their ease of use, ability to process large batches of samples, high reproducibility, and adaptability to automation. For example, isolating clean, intact RNA is essential for the successful analysis of gene expression by Northern hybridization, RNase protection, or RT-PCR. The RNA must be free of DNA and other cellular macromolecules such as polysaccharides and proteins that can interfere with labeling and hybridization. Fisher BioReagents offers a variety of RNA and DNA isolation products specialized for different sample types and for specific downstream applications.



Conventional Guanidinium Method

Many investigators still use the conventional, single-step technique of Chomczynski and Sacchi (1987) to isolate total RNA from eukaryotic cells. In this method, cells are lysed using guanidinium thiocyanate, and the RNA is extracted from the homogenate with phenol:chloroform at a reduced pH. The total RNA is of high quality, and the yield is about 5µg/mg of starting tissue. Many of the reagent chemicals used in this traditional RNA purification protocol are available through Fisher BioReagents.

Table 1

Fisher BioReagents products for conventional RNA purification protocol

Cat. No.	Description
BP2438	Phosphate Buffered Saline, 1X Solution
BP221	Guanidine Thiocyanate
BP327	Sodium Citrate Dihydrate
BP176	2-Mercaptoethanol
BP333	Sodium Acetate Anhydrous
BP17511	Phenol, Saturated, pH 4.3
BP1145	Chloroform
BP1150	Isoamyl Alcohol

Spin Column Chromatography

The SurePrep™ family of RNA purification kits utilizes spin column chromatography with a proprietary resin that separates RNA from other cellular macromolecules without the use of phenol or chloroform. SurePrep RNA purification kits are suitable for a wide variety of sample types, including cultured animal cells, tissue samples, blood, urine exfoliated cells, bacteria, yeast, and leukocytes from mammalian blood samples.

The SurePrep solid-phase extraction protocol includes the three essential steps for the successful isolation of intact RNA:

1. Effective disruption of cells or tissue
2. Inactivation of endogenous RNase activity
3. Removal of contaminating DNA and proteins



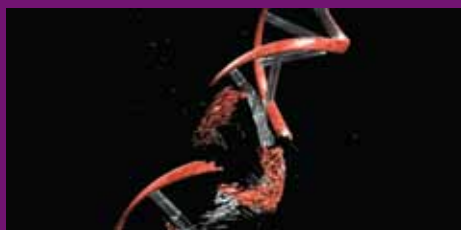
Table 2

SurePrep RNA purification kit selection guide

Cat. No.	Description	Recommended Applications
BP2800-50	TrueTotal RNA Purification Kit	Total RNA isolation including miRNA and siRNA from a variety of samples.
BP2801-25	Small RNA Purification Kit	Enrichment of small RNA by removing large RNA species for studying gene expression level and function of miRNA and siRNA.
BP2802-50	RNA/DNA/Protein Purification Kit	Separation and purification of total RNA, genomic DNA, and protein from single sample in <20 min. using the same column.
BP2803-50	Urine Exfoliated Cell RNA Purification Kit	Isolation and purification of total RNA from urinary tract exfoliated cells obtained from urine sample.
BP2804-50	Urine Bacterial RNA Purification Kit	Bacterial total RNA isolation and purification from either human urine samples or from animal urine samples. Isolates RNA from both gram positive and gram negative bacteria.
BP2805-50	Nuclear or Cytoplasmic RNA Purification Kit	Isolate and purify both cytoplasmic and nuclear RNA from cultured cells or animal tissue. Enrich for cytoplasmic or nuclear RNA depending on the downstream application.
BP2806-50	RNA/Protein Purification Kit	Isolate and purify total RNA and protein simultaneously from a single sample using the same column in <20 min.
BP2807-50	Leukocyte RNA Purification Kit	Isolation and purification of white blood cells total RNA from mammalian blood samples.
BP2809-50	RNA Cleanup and Concentration Kit	Purifies, cleans, and concentrates RNA isolated using other methods such as phenol: chloroform extraction or after enzymatic reactions.

Amplification Technology

Polymerase Chain Reaction (PCR)



The Polymerase Chain Reaction (PCR) is the best known and most widely applied method for amplifying the amount of the nucleic acid target. Molecular diagnostics requires techniques to detect extremely low concentrations of nucleic acids and to determine sequence variations that are minute changes in complex genomes. PCR is an in vitro method for exponentially amplifying the target DNA. PCR requires (1) a thermostable DNA polymerase, (2) deoxynucleotides of each base (termed dNTPs), (3) the target sequence, and (4) a pair of oligonucleotide primers complementary to opposite strands flanking the target sequence. Due to the commercial availability of thermostable DNA polymerases, kits, and instrumentation, the PCR method has been widely adopted in research and is routinely used in the clinical laboratory.

exACTGene® PCR Kits

Superior performance and reliability for routine PCR

Use the exACTGene complete PCR kit for the full benefits of the exACTGene system.

- Positive controls: a set of positive controls (500 bp and 6kb) are provided for troubleshooting PCR parameters
- Color-coding scheme: a unique color-coding scheme for reagent tubes is designed for ease-of-use
- Dual reaction buffers: extra flexibility is provided by including separate tubes of buffer A (with Mg^{2+}), buffer B (without Mg^{2+}), and $MgCl_2$ solution



Description	Cat. No.	Size
exACTGene Complete PCR Kit (250 U <i>Taq</i> DNA Polymerase, 10X Buffer A, 10X Buffer B, $MgCl_2$, dNTPs, three Control Primers, and DNA Template)	FB6100	200 rxns
exACTGene PCR Core Reagent Set A (<i>Taq</i> DNA Polymerase, 10X Buffer A, and dNTPs)	FB6210	80 rxns
exACTGene PCR Core Reagent Set B (<i>Taq</i> DNA Polymerase, 10X Buffer B, $MgCl_2$, and dNTPs)	FB6245	80 rxns
exACTGene Complete PCR Kit components <i>Taq</i> DNA Polymerase (5U/uL)	FB6260	400 rxns
10X Buffer A (plus Mg)	FB6111	250U
10X Buffer B (minus Mg)	BP6112	1mL
$MgCl_2$ (25mM)	BP6113	1mL
PCR Nucleotide Mix (10mM each dNTP)	BP6114	1mL
Control Lambda DNA Template (1ng/uL)	BP25652K	200μL
Control Primer 1 (20μM)	BP6115	100μL
Control Primer 2 (20μM)	BP6116	100μL
Control Primer 3 (20μM)	BP6117	100μL
	BP6118	100μL

exACTGene Deoxynucleotide Triphosphates (dNTPs)

- Ultrapure dNTPs (>99% triphosphate)
- Ideal for use in PCR, DNA labeling, and DNA sequencing

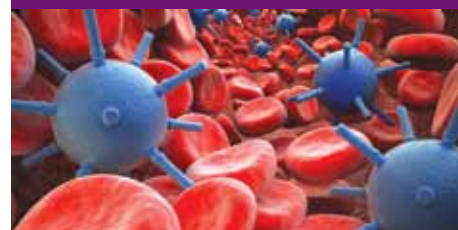
Description	Cat. No.	Concentration	Size
exACTGene dNTPs (Ultrapure grade, >99% triphosphate)			
exACTGene dATP	BP2590-250	100mM	250μL
exACTGene dCTP	BP2592-250	100mM	250μL
exACTGene dGTP	BP2591-250	100mM	250μL
exACTGene dTTP	BP2593-250	100mM	250μL
exACTGene PCR dNTP Mix	BP2595-200	10mM soln. of dATP	200μL
	BP2595-1	dCTP, dGTP, and dTTP	1000μL
exACTGene dNTP Set	BP2594-250	100mM of each dNTP	250μL ea.
	BP2594-500		500μL ea.

Taq DNA Polymerase

Fisher Scientific's licensed *Taq* DNA Polymerase—the best choice for performing routine PCR on your cDNA and genomic DNA templates

Description	Cat. No.	Size
<i>Taq</i> DNA Polymerase and 10X Buffer A with $MgCl_2$ (100mM Tris-HCl, pH 9.0 [at 25°C]; 500mM KCl; 15mM $MgCl_2$)	FB6000-10	100U
	FB6000-15	5 x 100U
	FB6000-20	25 x 100U
	FB6000-25	500U
	FB6000-30	5 x 500U
	FB6000-35	2500U
	FB6000-40	5 X 2500U
<i>Taq</i> DNA Polymerase and 10X Buffer B without $MgCl_2$ (100mM Tris-HCl, pH 9.0 [at 25°C]; 500mM KCl and 25mM $MgCl_2$ solution in a separate vial)	FB6000-45	100U
	FB6000-50	5 x 100U
	FB6000-55	25 x 100U
	FB6000-60	500U
	FB6000-65	5 x 500U
	FB6000-70	2500U
	FB6000-75	5 x 2500U

Electrophoresis is the most commonly used technique for DNA and RNA analysis, and the results of electrophoretic separations provide the basis of interpretation of many clinical assays.



Both DNA and RNA are negatively charged and will migrate toward the anode (positive electrode) when an electric field is applied across an appropriately buffered solution. Separation of different nucleic acids occurs when mixtures are allowed to travel through a neutral sieving polymer matrix (agarose or polyacrylamide) under an electrical field. Separation is based primarily on molecular weight, with smaller molecules traveling faster through the polymer matrix than larger ones. Separation also occurs based on physical conformation, or shape, of the molecule, but this can also complicate size-based separation. For example, because RNA generally has a high degree of secondary structure, electrophoresis of RNA is usually performed under denaturing conditions to eliminate these structures. In contrast, electrophoresis of DNA is performed under non-denaturing or denaturing conditions depending on the application.

Fisher BioReagents® offers three different grades of agarose that are functionally tested and pre-qualified for specific applications. Agarose grades used in electrophoresis of nucleic acids:

Genetic Analysis Grade—agarose that yields biologically active DNA or RNA. Testing includes enzymatic performance measurements.

Molecular Biology Grade—suitable for analytical separation of DNA or RNA.

PCR Grade—the original agarose for analytical separation of PCR amplicons (<1kb).

Cat. No.	Agarose	Agarose Separation Ranges
BP160	Low EEO/Multipurpose	500bp to 23kb
BP165	Low Melting/Nucleic Acid Recovery	200bp to 25kb
BP1356	Broad Separation Range for DNA/RNA	500bp to 25kb
BP1360	Low Melting <1kb DNA/RNA	50bp to 1kb
BP2410	Intermediate Melting	15bp to 1.2kb

Agarose Selection Guide

Type of Agarose	Low EEO	Low Melting >200 bp	Low Melting <1000 bp	Wide Separation Range	PCR Grade
Cat. No.	BP160	BP165	BP1360	BP1356	BP2410
Recovery of DNA and RNA	x	x	x	x	x
Southern and Northern Blots	x				
DNA/RNA separation 50bp to 1kb			x		x
DNA/RNA separation >1kb	x	x		x	
PCR fragment analysis	x	x	x	x	x
In-gel reactions (ligation, transformations, PCR)			x		
Colony lifts	x				
Available pack sizes	100g and 500g	25g	100g	100g and 500g	100g
Agarose grade	Molecular biology	Molecular biology	Genetic analysis	Genetic analysis	PCR

Electrophoresis

Nucleic Acid



Fisher BioReagents buffers meet the needs of every budget and scale.

- Economical powders come in various package sizes
- Concentrated stock solutions provide convenience in one step of easy dilution
- Ready-to-use solutions offer the biggest time savings of all

Buffers

Two buffers commonly used for DNA agarose electrophoresis are Tris-acetate with EDTA (TAE; 40mM Tris-acetate, 1mM EDTA) and Tris-borate with EDTA (TBE, 89mM Tris-borate, 2mM EDTA). Because the pH of these buffers is neutral, the phosphate backbone of DNA has a net negative charge and migrates toward the anode. TAE and TBE have different properties which makes one more suitable than the other for a specific purpose.

The denaturing system chosen depends on the purpose of the RNA experiment and the size of the RNA fragment being separated. Formaldehyde denaturation is suitable if RNA samples are to be recovered. Formamide denaturation is suitable if the RNA needs to retain its biological activity.

Buffer	Suggested Uses	Properties
TAE	DNA recovery.	Low buffering capacity.
	Electrophoresis of large DNA (>12kb).	Recirculation may be necessary for extended run times (>6 hr).
TBE	Electrophoresis of small DNA (<1kb).	Decreased DNA mobility.
	Increased resolution of small DNA (<1kb).	High buffering capacity – no recirculation required for extended run times.
MOPS	Electrophoresis of formaldehyde denatured RNA.	Buffer is low in ionic strength. Recirculation of buffer may be necessary.

Buffers for Nucleic Acid Applications

Cat. No.	Concentration	Size
TBE		
BP2430-1	1X	1L
BP2430-4	1X	4L
BP2430-20	1X	20L
BP1396-86	5X	1L*
BP1333-1	10X	1L
BP1333-4	10X	4L
BP1333-20	10X	20L
BP1334-1	10X	1L**
TAE		
BP2434-4	1X	4L
BP2434-20	1X	20L
BP1335-500	10X	500mL
BP1335-1	10X	1L
BP1335-4	10X	4L
BP1335-20	10X	20L
BP1330-1	25X	1L
BP1332-500	50X	500mL
BP1332-1	50X	1L
BP1332-4	50X	4L
BP1332-20	50X	20L
BP1331-1	25X	1L**
MOPS		
BP308-100	Powder	100g
BP308-500	Powder	500g
BP2900-500	10x Buffer Solution	500mL
BP2900-1	10x Buffer Solution	1L
Water		
BP2484-50	Nuclease-Free	50mL
BP2484-100	Nuclease-Free	100mL
BP2470-1	DNA-Grade	1L
BP561-1	RNA-Grade	1L
Formaldehyde		
BP531-25	37% by weight	25mL
BP531-500	37% by weight	500mL

*Pre-weighed powder in poly bottle. Dissolve in water.

** Pre-weighed powder in foil pack. Dissolve in water.

Molecular Weight Standards

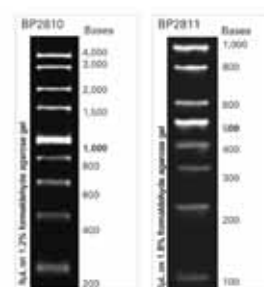
To achieve the most accurate qualitative and quantitative analysis via agarose gel electrophoresis, the appropriate DNA or RNA standard is required.

Fisher BioReagents provides a wide range of standards, including routine DNA ladders for quick size and quality assessment as well as exACTGene DNA ladders that allow for quantitative analysis.



RiboLadders™ RNA Standards

Cat. No.	Application	Size Range	Number of Bands	Number of Loadings
	Sizing unknown RNA fragments			
BP2810-50	Small RNA fragments	0.1 – 1kb	8	50
BP2811-50	Large RNA fragments	0.2 – 4kb	9	50



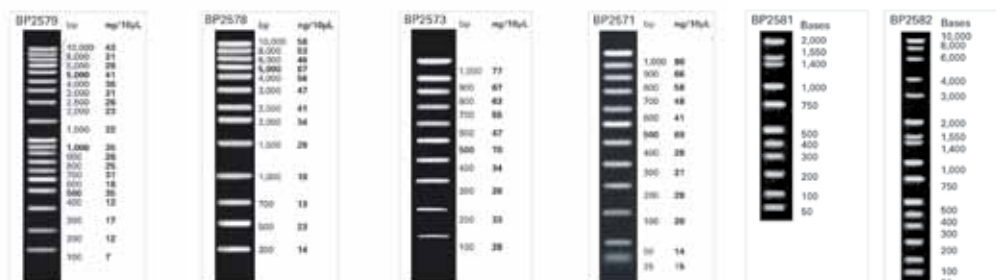
exACTGene® and Routine DNA Ladders

exACTGene DNA ladders are ideal for qualitative analysis, quantitative estimation of DNA mass, and size assessment. Ready to use and stable at room temperature.

Cat. No.	Application	Size Range	Number of Bands	Number of Loadings
BP2570-100	PCR fragment analysis	25-650 bp	14	100/10uL
BP2571-100	PCR fragment analysis, small DNA digests	25-1000 bp	12	100/10uL
BP2572-100	Quick check of PCR or enzyme digestion results	50-2000 bp	8	100/10uL
BP2573-100	General purpose, small DNA fragments	100-1000 bp	10	100/10uL
BP2574-100	Fast run times, small DNA fragments	100-2000 bp	11	100/10uL
BP2575-100	Clone identification	100-2686 bp	14	100/10uL
BP2576-100	Large size PCR or cloning	300-5000 bp	10	100/10uL
BP2577-100	Small and large cloning application	100-5000 bp	16	100/10uL
BP2578-100	General purpose, large digested DNA	300-10,000 bp	13	100/10uL
BP2579-100	General purpose, wide size range	100-10,000 bp	19	100/10uL
BP2580-100	General purpose, extra-large fragments	300-24,000 bp	15	100/10uL
Routine DNA ladders are designed for qualitative analysis and size assessment				
BP2581-200	Small fragments, quick size assessment	50-2000 bp	11	200/5uL
BP2582-200	Quick size assessment of broad size range	50-10,000 bp	16	200/5uL

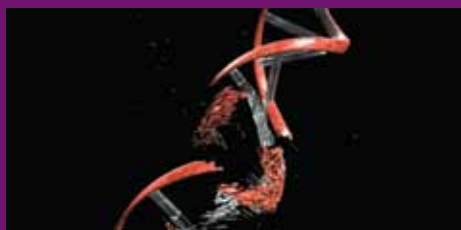
exACTGene® DNA Ladders

Routine DNA Ladders



Enzymes

Restriction Enzymes



Nucleic acid enzymes are critical tools for the techniques used in molecular diagnostics.

Common enzymes that act on nucleic acids include polymerases that synthesize longer polymers of DNA or RNA and nucleases that degrade DNA or RNA into shorter fragments. Our ability to manipulate nucleic acids in vitro with these enzymes has made modern molecular biology possible.

Restriction Enzymes

Quality assurance—tested for activity and functional purity

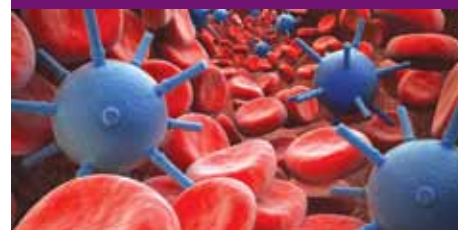
Activity unit definition: One unit of restriction enzyme is defined as the amount of enzyme required to produce a complete digest of one microgram of substrate DNA in 60 minutes at the appropriate assay temperature in a 50 μ L reaction volume.

Description	Source	Concentration	Quantity	Cat. No.
<i>Aat</i> II	<i>Acetobacter aceti</i>	3–5 units/ μ L	50 units	BP3300-1
<i>Acc</i> I	<i>Acinetobacter calcoaceticus</i>	3–10 units/ μ L	100 units	BP3302-1
<i>Acc</i> III	<i>Acinetobacter calcoaceticus</i>	10 units/ μ L	200 units	BP3304-1
<i>Acc</i> 65 I	<i>Acinetobacter calcoaceticus</i>	10 units/ μ L	1500 units	BP3306-1
<i>Alu</i> I	<i>Arthrobacter luteus</i>	10 units/ μ L	500 units	BP3308-1
<i>Alw</i> 44 I	<i>Acinetobacter lwoffii</i> RFL 44	10 units/ μ L	1000 units	BP3310-1
<i>Apa</i> I	<i>Acetobacter pasteurianus</i>	8–12 units/ μ L	5000 units	BP3312-1
<i>Ava</i> I	<i>Anabaena variabilis</i>	8–12 units/ μ L	200 units	BP3314-1
<i>Ava</i> II	<i>Anabaena variabilis</i>	1–10 units/ μ L	100 units	BP3316-1
<i>Bal</i> I	<i>Brevibacterium albidum</i>	2–10 units/ μ L	50 units	BP3318-1
<i>Bam</i> H I	<i>Bacillus amyloliquefaciens</i> H	10 units/ μ L	2500 units	BP3320-1
		10 units/ μ L	12,500 units	BP3320-5
<i>Ban</i> II	<i>Bacillus aneurinolyticus</i>	8–12 units/ μ L	1000 units	BP3322-1
<i>Bcl</i> I	<i>Bacillus caldolyticus</i>	40–80 units/ μ L	5000 units (HC)	BP3324-5
<i>Bgl</i> I	<i>Bacillus globigii</i>	10 units/ μ L	1000 units	BP3325-1
<i>Bgl</i> II	<i>Bacillus globigii</i>	10 units/ μ L	500 units	BP3326-1
<i>Bsp</i> 1286 I	<i>Bacillus sphaericus</i> (IAM 1286)	10 units/ μ L	500 units	BP3328-1
<i>Bsr</i> BR I	<i>Bacillus stearothermophilus</i>	10 units/ μ L	2000 units	BP3330-1
<i>Bss</i> H II	<i>Bacillus stearothermophilus</i> H3	10 units/ μ L	100 units	BP3332-1
<i>Bst</i> 98 I	<i>Bacillus stearothermophilus</i>	8–12 units/ μ L	500 units	BP3334-1
<i>Bst</i> E II	<i>Bacillus stearothermophilus</i>	10 units/ μ L	2000 units	BP3336-1
<i>Bst</i> O I	<i>Bacillus stearothermophilus</i>	10 units/ μ L	2000 units	BP3338-1
<i>Bst</i> X I	<i>Bacillus stearothermophilus</i> XI	8–12 units/ μ L	250 units	BP3340-1
<i>Cfo</i> I	<i>Clostridium formicoaceticum</i>	10 units/ μ L	3000 units	BP3342-1
<i>Cla</i> I	<i>Caryophanon latum</i> L	10 units/ μ L	500 units	BP3344-1
<i>Csp</i> I	<i>Clostridium species</i>	10 units/ μ L	500 units	BP3346-5
<i>Csp</i> 45 I	<i>Clostridium sporogenes</i>	10 units/ μ L	2500 units	BP3348-1
<i>Dde</i> I	<i>Desulfovibrio desulfuricans</i>	8–12 units/ μ L	200 units	BP3350-1
<i>Dpn</i> I	Recombinant <i>E. coli</i> strain	10 units/ μ L	200 units	BP3352-1
<i>Dra</i> I	<i>Deinococcus radiophilus</i>	10 units/ μ L	2000 units	BP3354-1
<i>Eco</i> R V	<i>Escherichia coli</i> J62 pLG74	10 units/ μ L	2000 units	BP3356-1
<i>Eco</i> 47 III	<i>Escherichia coli</i> RFL 47	2–5 units/ μ L	50 units	BP3358-1
<i>Eco</i> 52 I	<i>Escherichia coli</i> RFL 52	1–5 units/ μ L	50 units	BP3360-1
<i>Eco</i> R I	<i>Escherichia coli</i> RY 13	8–12 units/ μ L	5000 units	BP3362-1
		40–80 units/ μ L	50,000 units (HC)	BP3362-7
<i>Fok</i> I	<i>Flavobacterium okeanokoites</i>	2–10 units/ μ L	100 units	BP3364-1
<i>Hae</i> II	Recombinant <i>E. coli</i> strain	10 units/ μ L	1000 units	BP3366-1
<i>Hae</i> III	<i>Haemophilus aegyptius</i>	10 units/ μ L	2500 units	BP3368-1
<i>Hinc</i> II	<i>Haemophilus influenzae</i> Rc	10 units/ μ L	200 units	BP3370-1

Restriction Enzymes

Quality assurance—tested for activity and functional purity

Activity unit definition: One unit of restriction enzyme is defined as the amount of enzyme required to produce a complete digest of one microgram of substrate DNA in 60 minutes at the appropriate assay temperature in a 50µL reaction volume.



Description	Source	Concentration	Quantity	Cat. No.
Hind III	<i>Haemophilus influenzae</i> Rd	10 units/µL	5000 units	BP3372-1
		10 units/µL	15,000 units	BP3372-5
Hinf I	<i>Haemophilus influenzae</i> Rf	10 units/µL	1000 units	BP3374-1
Hpa I	<i>Haemophilus parainfluenzae</i>	3–10 units/µL	100 units	BP3376-1
Hpa II	<i>Haemophilus parainfluenzae</i>	10 units/µL	1000 units	BP3378-1
Mlu I	<i>Micrococcus luteus</i>	10 units/µL	1000 units	BP3382-1
Msp I	<i>Moraxella</i> species	10 units/µL	2000 units	BP3384-1
Nae I	<i>Nocardia aerocolonigenes</i>	4 units/µL	250 units	BP3386-1
Nar I	<i>Nocardia argentinensis</i>	10 units/µL	200 units	BP3388-1
Nco I	<i>Nocardia corallina</i>	10 units/µL	200 units	BP3390-1
Nde I	<i>Neisseria denitrificans</i>	10 units/µL	500 units	BP3392-1
Nde II	<i>Neisseria denitrificans</i>	10 units/µL	200 units	BP3394-1
Nhe I	<i>Neisseria mucosa heidelbergensis</i>	10 units/µL	250 units	BP3396-1
Not I	<i>Nocardia otitidis-caviarum</i>	10 units/µL	200 units	BP3398-1
Nru I	<i>Nocardia rubra</i> ATCC 15906	10 units/µL	200 units	BP3400-1
Nsi I	<i>Neisseria sicca</i>	10 units/µL	250 units	BP3402-1
Pst I	Recombinant <i>E. coli</i> strain	10 units/µL	3000 units	BP3404-1
Pvu I	<i>Proteus vulgaris</i>	2–10 units/µL	100 units	BP3406-1
Pvu II	<i>Proteus vulgaris</i>	8–12 units/µL	1000 units	BP3408-1
Rsa I	<i>Rhodopseudomonas sphaeroides</i>	10 units/µL	1000 units	BP3410-1
		40–80 units/µL	5000 units (HC)	BP3410-5
Sac I	<i>Streptomyces achromogenes</i>	10 units/µL	1000 units	BP3412-1
Sac II	<i>Streptomyces achromogenes</i>	10 units/µL	500 units	BP3414-1
Sal I	<i>Streptomyces albus</i> G	10 units/µL	2000 units	BP3416-1
Sau3A I	<i>Staphylococcus aureus</i> 3A	3–10 units/µL	100 units	BP3418-1
Sca I	<i>Streptomyces caespitosus</i>	8–12 units/µL	1000 units	BP3422-1
Sfi I	<i>Streptomyces fimbriatus</i>	10 units/µL	250 units	BP3424-1
Sma I	<i>Serratia marcescens</i>	8–12 units/µL	1000 units	BP3426-1
SnaB I	<i>Sphaerotilus natans</i> ATCC 139280	2–10 units/µL	100 units	BP3428-1
Spe I	<i>Sphaerotilus natans</i> ATCC 13923	10 units/µL	200 units	BP3430-1
Sph I	<i>Streptomyces phaeochromogenes</i>	10 units/µL	200 units	BP3432-1
Ssp I	<i>Sphaerotilus natans</i>	10 units/µL	500 units	BP3434-1
Stu I	<i>Streptomyces tubercidicus</i>	10 units/µL	400 units	BP3436-1
Sty I	Recombinant <i>E. coli</i> strain	10 units/µL	2000 units	BP3438-1
Taq I	<i>Thermus aquaticus</i> YT1	10 units/µL	1000 units	BP3440-1
Tru9 I	<i>Thermus ruber</i> 9	8–12 units/µL	200 units	BP3442-1
Tth111 I	<i>Thermus thermophilus</i> 111	8–12 units/µL	500 units	BP3444-1
Vsp I	<i>Vibrio</i> species	8–12 units/µL	500 units	BP3446-1
Xba I	<i>Xanthomonas badrii</i>	8–12 units/µL	2000 units	BP3448-1
		40–80 units/µL	10,000 units (HC)	BP3448-7
Xho I	<i>Xanthomonas holcicola</i>	10 units/µL	3000 units	BP3450-1
Xho II	<i>Xanthomonas holcicola</i>	5–10 units/µL	100 units	BP3452-1
Xmn I	<i>Xanthomonas manihotis</i> 7AS1	10 units/µL	500 units	BP3454-1

Enzymes

Modifying Enzymes and Proteins



Modifying Enzymes and Proteins

Quality tested for activity and function

- Binding Proteins
- Kinases
- Ligases
- Nucleases
- Phosphatases
- Polymerases
- Reverse Transcriptases
- RNase Inhibitor
- Topoisomerases
- Transferases

Description	Source	Concentration	Quantity	Cat. No.
Alkaline Phosphatase Calf Intestinal (CIAP)	Calf Intestinal mucosa	1 unit/μL	1000 units	BP3217-1
AMV Reverse Transcriptase	Purified Avian Myeloblastosis Virus particles	5-10 units/μL	300 units	BP3207-1
			1000 units	BP3207-5
DNA Polymerase I	Recombinant <i>E. coli</i> strain	5-10 units/μL	500 units	BP3200-1
DNA Polymerase I Large (Klenow) Fragment	Recombinant <i>E. coli</i> strain	5-10 units/μL	150 units	BP3201-1
			500 units	BP3201-5
DNase I (RNase Free), Optizyme®	Recombinant yeast strain	2 units/μL	1000 units	BP3226-1
			2000 units	BP3226-2
Exonuclease III	Recombinant <i>E. coli</i> strain	150-200 units/μL	5000 units	BP3213-1
M-MLV Reverse Transcriptase	Recombinant <i>E. coli</i> strain	200 units/uL	10,000 units	BP3208-1
			50,000 units	BP3208-5
Mung Bean Nuclease	Mung bean sprouts	50-100 units/μL	2000 units	BP3214-1
Ribonuclease A	Bovine pancreas		100mg	BP2539-100
			250mg	BP2539-250
			1g	BP2539-1
Ribonuclease H	Recombinant <i>E. coli</i> strain	0.5-2 units/μL	50 units	BP3215-1
Ribonuclease Inhibitor, Human Placental, Optizyme®	Human placenta	20-40 units/uL	2500 units	BP3224-1
Ribonuclease Inhibitor, Porcine, Optizyme®	Porcine	20-40 units/uL	2500 units	BP3225-1
Ribonuclease Inhibitor, Recombinant, Optizyme®	Recombinant <i>E. coli</i> strain	20-40 units/μL	2500 units (HC)	BP3222-1
			10,000 units	BP3222-5
RQ1 RNase-Free DNase	Bovine pancreas	1 unit/μL	1000 units	BP3223-1
S1 Nuclease	Fungal alpha amylase powder	20-100 units/μL	10,000 units	BP3216-1
SP6 RNA Polymerase	Recombinant <i>E. coli</i> strain	10-20 units/μL	1000 units	BP3204-1
Single-Stranded DNA Binding Protein	<i>E. coli</i>	—	100μg	BP3218-1
T3 RNA Polymerase	Recombinant <i>E. coli</i> strain	10-20 units/μL	1000 units	BP3206-1
		80 units/μL	2500 units (HC)	BP3206-5
T4 DNA Ligase	Recombinant <i>E. coli</i> strain	1-3 units/μL	100 units	BP3210-1
			500 units	BP3210-5
T4 DNA Polymerase	Recombinant <i>E. coli</i> strain	5-10 units/μL	100 units	BP3202-1
			500 units	BP3202-5
T4 Polynucleotide Kinase	Recombinant <i>E. coli</i> strain	5-10 units/μL	100 units	BP3212-1
			1000 units	BP3212-5
T7 RNA Polymerase	—	10-20 units/μL	1000 units	BP3205-1
			5000 units	BP3205-5
			80 units/μL	10,000 units (HC)
Terminal Deoxynucleotidyl Transferase	Calf thymus	15-30 units/μL	300 units	BP3203-1
			1500 units	BP3203-5
Topoisomerase I	Wheat germ	2-10 units/μL	200 units	BP3221-1

Nucleic acid blotting techniques can be used to characterize tissues and cultured cells with respect to gene integrity and copy number (Southern blot) and gene expression (Northern blot), often providing valuable information for the clinical evaluation of patient samples.



Many of the techniques involved with Southern blotting and Northern blotting are similar. For example, negatively charged purified nucleic acids are separated according to size by electrophoresis through an agarose gel matrix. The RNA or denatured DNA is then transferred and immobilized onto a nitrocellulose or nylon membrane. The nucleic acids on the membrane are then hybridized to a specific labeled “probe”. Hybridization between the immobilized nucleic acids and labeled probe allows detection of specific DNA or RNA sequences within a complex mixture of nucleic acids.

Obtaining optimal results for traditional nucleic acid analysis tools such as Northern and Southern blotting techniques requires careful selection of reagents. When your experiments require exact buffering conditions, you can depend on the reliability of Fisher BioReagents buffers. All Fisher BioReagents buffers are manufactured from high quality raw materials under ISO 9001:2000 certified manufacturing and testing processes.

Buffers for Nucleic Acid Hybridization

Part No.	Product Description	Pack Size	Application
BP520-5	Denhardt's Reagent, 50X Powder	150mg	Used as a blocking agent in DNA hybridizations
BP515-5	Denhardt's Reagent, 50X Solution	5mL	Used as a blocking agent in DNA hybridizations
BP2514-250	Deoxyribonucleic Acid Sodium Salt (ssDNA, from salmon sperm)	250mg	Used in several biochemical research applications
BP2514-1		1g	
BP2514-5		5g	
BP2514-10		10g	
BP1580-100	Dextran	100g	May be used with polyethylene glycol under certain conditions in the fractionation of proteins, cells, viral particles, and other macromolecules
BP1585-100	Dextran Sulfate Sodium Salt	100g	Accelerates the rate of hybridization of DNA or RNA bound to membranes and may be used in Southern and Northern blotting procedures
BP1585-500		500g	
BP1575-50	Hybridization Cocktail (50% Formamide)	50mL	Formulated for use in Southern and Northern transfers, dot blots, and in situ DNA and RNA hybridizations
BP1325-1	Saline-Sodium Citrate (SSC), 20X Solution	1L	Used as a buffer in Southern transfer protocols
BP1325-4		4L	
BP1325-20		20L	
BP1328-1	Saline-Sodium Phosphate-EDTA (SSPE), 20X Solution	1L	Used in bacterial screening and hybridization procedures
BP1328-4		4L	
BP1328-20		20L	

Protein Chemistry

Protein Electrophoresis



Protein electrophoresis is a method of analyzing a mixture of proteins, primarily from samples of blood serum, body fluids, and tissue samples, by means of gel electrophoresis. The evaluation and identification of proteins through electrophoresis helps researchers understand protein structure and functionality in pathogenic conditions, as well as identifying therapies for diseases.

Protein Electrophoresis Reagents from Fisher BioReagents

EZ Run Products

- EZ Run Gel Solution
- EZ Run Protein Standards

Additional Reagents

- Acrylamide, Bis-Acrylamide, and Catalysts
- Detergents/Denaturing Agents
- Loading and running buffers

EZ-Run Protein Gel Solution

- Ready to use
- Superior resolution
- Wide separation range on same mini-gel
- No stacking gel required
- Proprietary gel chemistry
- Stable for two years at room temperature
- Compatible with all conventional staining methods
- Suitable for post-electrophoresis applications such as Western blot transfer and MALDI analysis

EZ Run Protein Gel Solution Separation Range

EZ Run Gel %	MW Separation Range (kDa)
10	10-220
12.5	3-200
15	2-100

EZ Run Protein Gel Solution List

Description	Size	Catalog No.
10% EZ-Run Protein Gel Solution with buffer	100mL	BP7710-100
10% EZ-Run Protein Gel Solution with buffer	500mL	BP7710-500
12.5% EZ-Run Protein Gel Solution with buffer	100mL	BP7712-100
12.5% EZ-Run Protein Gel Solution with buffer	500mL	BP7712-500
15% EZ-Run Protein Gel Solution with buffer	100mL	BP7715-100
15% EZ-Run Protein Gel Solution with buffer	500mL	BP7715-500
20X Running Buffer for EZ-Run Protein Gel Solution	500mL	BP7700-500

EZ-Run Protein Standards

Designed to assist in characterizing unknown proteins in polyacrylamide gels and immunoblots

- Highly purified markers and ladders provide compact and clear bands
- Prestained standards are indispensable in monitoring protein separation and transfer efficiency
- Reference bands allow quick gel progress assessment
- Unstained standards are most suitable for precise sizing of proteins
- All standards are supplied in loading buffer and are ready to use

EZ Run Protein Standards List

Description	MW Range	No. of Bands	Reference Band	Source	Quantity	Catalog No.
Unstained Protein Standards	14.4-116.0 kDa	7		Native proteins	500uL	BP3600-500
					2 x 500uL	BP3600-1
	10.0-200.0 kDa	14	50 kDa	Recombinant proteins	500uL	BP3602-500
					2 x 500uL	BP3602-1
Prestained Protein Standards	20.0 - 118.0 kDa	6		Native proteins	500uL	BP3601-500
					2 x 500uL	BP3601-1
	11.0 - 170.0 kDa	10	72 kDa	Recombinant proteins	500uL	BP3603-500
					2 x 500uL	BP3603-1



Additional Protein Electrophoresis Reagents from Fisher BioReagents
Acrylamide, Bis-Acrylamide, and Catalysts

Description	Quantity	Catalog No.
Acrylamide	100g	BP170-100
	500g	BP170-500
	5kg	BP170-5
Acrylamide Solution, 40%	1L	BP1402-1
Bis-Acrylamide	25g	BP171-25
	100g	BP171-100
Bis-Acrylamide solution, 2%	250mL	BP1404-250
Acrylamide:Bis Acrylamide, Dry Powder Mix, 19:1 (5% Cross-linker)	100g	BP1364-100
Acrylamide:Bis Acrylamide, Dry Powder Mix, 29:1 (3.3% Cross-linker)	100g	BP1366-100
Acrylamide:Bis Acrylamide, Dry Powder Mix, 37.5:1 (2.6% Cross-linker)	100g	BP1368-100
Acrylamide:Bis-Acrylamide, 40% Solution, 19:1 (5% Cross-linker)	1L	BP1406-1
Acrylamide:Bis-Acrylamide, 40% Solution, 29:1 (3.3% Cross-linker)	1L	BP1408-1
Acrylamide:Bis-Acrylamide, 40% Solution, 37.5:1 (2.6% Cross-linker)	1L	BP1410-1
Ammonium Persulfate	25g	BP179-25
	100g	BP179-100
Sodium Persulfate	1kg	BP2637-1
TEMED	130mL (100g)	BP150-100
	26mL (20g)	BP150-20

Detergents/Denaturing Agents

Description	Quantity	Catalog No.
2-Mercaptoethanol	100g (89.74mL)	BP176-100
Sodium Dodecyl Sulfate (SDS) Solution, 10%	200mL	BP2436-200
	1L	BP2436-1
Sodium Dodecyl Sulfate (SDS) Solution, 20%	200mL	BP1311-200
	1L	BP1311-1
Urea	10kg	BP169-10

Loading and Running Buffers

Description	Quantity	Catalog No.
Protein Gel-Loading Dye for SDS-PAGE, 2X	1mL	BP637-1
	5mL	BP637-5
Tris Glycine Running Buffer, 10X	1L	BP1306-1
	4L	BP1306-4
Tris-Glycine Powder, 10X	Preweighed to make 1L	BP1307-1
Tris Glycine SDS Running Buffer, 10X	1L	BP1341-1
	4L	BP1341-4
Tris-Glycine-SDS Powder, 10X	Preweighed to make 1L	BP1342-1
Tris-Glycine-SDS Powder, 5X	Preweighed to make 1L	BP1398-92

Tissue Culture

Microbial Cell Culture



Antibiotics and Microbiology Media

The Fisher BioReagents microbiology media feature a selection of carefully formulated powder and premixed media for diverse microbiological research applications.

Microbial Cultures

The Fisher BioReagents product line features a selection of carefully formulated powder and premixed media optimized for different types of microbial cells and growth conditions. Select media are offered in the format of pre-weighed pouches to eliminate the time-consuming step of weighing fine powder. For those research laboratories that require the most stringent consistency and quality control, we offer select media in a ready-to-use liquid format. Our offering ranges from basic LB formulations to enriched media for more demanding strains.

Catalog No.	Media/Additive	Description/Application	Size
BP1423-500	Agar, Granulated	Used as a solidifying agent	500g
BP1423-2			2kg
BP1424-100	Casamino Acids	Acid-hydrolyzing casein for microbiological media requiring completely hydrolyzed protein as a nitrogen source	100g
BP1424-500			500g
BP1424-2			2kg
BP1425-500	LB Agar, Miller (Granular)	Contains 10g of tryptone, 5g of yeast extract, 10g of sodium chloride, 15g of granulated agar per liter	500g
BP1425-2			2kg
BP1427-500	LB Broth, Lennox (Powder)	Contains 10g of tryptone, 5g of yeast extract, 5g of sodium chloride per liter	500g
BP1427-2			2kg
BP1426-500	LB Broth, Miller (Granular)	Contains 10g of tryptone, 5g of yeast extract, 10g of sodium chloride per liter	500g
BP1426-2			2kg
BP1420-100	Peptone	Contains nitrogen in a form readily available to bacteria	100g
BP1420-500			500g
BP1420-2			2kg
BP1421-100	Tryptone	Pancreatic digest of casein is used as a nitrogen source for bacteria	100g
BP1421-500			500g
BP1421-2			2kg
BP1422-100	Yeast extract	Water-soluble portion of autolyzed fresh yeast is used in bacteriological culture media	100g
BP1422-500			500g
BP1422-2			2kg

TransMax Competent Cells

TransMax competent cells are produced according to rigorous quality control standards to ensure dependable performance and lot-to-lot consistency. Transformations are performed, at least in triplicate, to verify efficiency specifications using pUC19 plasmid DNA.

ChromoMax IPTG/X-Gal Solution is suitable for use with all commercially available competent cells that utilize lacZ blue/white screening. In our laboratories the new formulation was used for screening of transformed TransMax™ Competent Cells, resulting in clearly differentiated blue and white colonies.



Description	Size	No. of Applications	Catalog No.
ChromoMax IPTG/ X-Gal Solution	1mL	~10 plates	BP4200-1
	10mL	~100 plates	BP4200-10
	5 x 10mL	~500 plates	BP4200-50

Fisher BioReagents Antibiotics and Antimycotics

Optimized for Cell Culture

In many life science laboratories, the in vitro culturing of bacterial, plant, and animal cells is a routine task. High quality antibiotics and antimycotics from Fisher BioReagents can be used to ensure successful growth of cells by eliminating unwanted bacterial strains and fungi while maintaining the health and vitality of the desired cells.



Advantages

- **High quality** - antibiotics and antimycotics meet rigorous quality control tests, including verification of potency, purity, and solubility using microbiological and chromatographic methods.
- **Built for selection** - excellent choice of antibiotics for selection of antibiotic resistance genes in both bacterial and mammalian cells.
- **High purity and stability** - our ultrapure antibiotics ensure successful growth of target cells and reproducible results

Applications

- Plant cell culture
- Mammalian cell culture
- Tissue culture
- Genetic marker selection

Additional antibiotics available through Fisher BioReagents (See Page 2 for new products)

Cat. No.	Description	Pack Size
BP606-10	Actinomycin D (Red Crystals)	10mg
BP606-5	Actinomycin D (Red Crystals)	5mg
BP2643-1	Amikacin (From Kanamycin A, White Crystalline Powder)	1g
BP2643-250	Amikacin (From Kanamycin A, White Crystalline Powder)	250mg
BP928-250	Amphotericin B (Yellow Powder)	250mg
BP2645-20	Amphotericin B (Yellow Solution/250µg/mL)	20mL
BP2645-50	Amphotericin B (Yellow Solution/250µg/mL)	50mL
BP1760-25	Ampicillin Sodium Salt (Crystalline Powder)	25g
BP1760-5	Ampicillin Sodium Salt (Crystalline Powder)	5g
BP902-25	Ampicillin Trihydrate (Off-white Powder)	25g
BP2502-5	Antibiotic A23187 (Off-white Crystalline Powder)	5mg
BP2647-100	Blasticidin S Hydrochloride (White Powder)	100mg
BP2647-25	Blasticidin S Hydrochloride (White Powder)	25mg
BP2647-50	Blasticidin S Hydrochloride (White Powder)	50mg
BP2648-1	Carbenicillin (Disodium Salt, White Powder)	1g
BP2648-250	Carbenicillin (Disodium Salt, White Powder)	250mg
BP2648-5	Carbenicillin (Disodium Salt, White Powder)	5g
BP904-100	Chloramphenicol (Crystalline Powder)	100g
BP2516-1	Doxorubicin Hydrochloride (Reddish-orange Powder)	1mg
BP2516-10	Doxorubicin Hydrochloride (Reddish-orange Powder)	10mg
BP2516-5	Doxorubicin Hydrochloride (Reddish-orange Powder)	5mg
BP2516-50	Doxorubicin Hydrochloride (Reddish-orange Powder)	50mg
BP2653-1	Doxycycline Hydrochloride (Yellow Powder)	1g
BP2653-5	Doxycycline Hydrochloride (Yellow Powder)	5g

Cat. No.	Description	Pack Size
BP920-25	Erythromycin (White Crystalline Powder)	25g
BP673-1	G418 Sulfate (White to Off-white Powder)	1g
BP673-5	G418 Sulfate (White to Off-white Powder)	5g
BP918-1	Gentamycin Sulfate (White Powder)	1g
BP2527-1	Ionomycin (Calcium Salt)	1mg
BP2527-10	Ionomycin (Calcium Salt)	10mg
BP2527-5	Ionomycin (Calcium Salt)	5mg
BP906-5	Kanamycin Sulfate (White Powder)	5g
BP2734-1	Ketoconazole (White Powder)	1g
BP2734-100	Ketoconazole (White Powder)	100mg
BP2734-50	Ketoconazole (White Powder)	50mg
BP2734-500	Ketoconazole (White Powder)	500mg
BP2668-1	Miconazole (Free Base)	1g
BP2668-5	Miconazole (Free Base)	5g
BP2531-10	Mitomycin C	10mg
BP2531-2	Mitomycin C	2mg
BP2531-20	Mitomycin C	20mg
BP2669-25	Neomycin Sulfate (White Powder)	25g
BP2669-5	Neomycin Sulfate (White Powder)	5g
BP914-100	Penicillin-G Potassium Salt	100g
BP2679-1	Rifampicin (Bright Orange Powder)	1g
BP2679-25	Rifampicin (Bright Orange Powder)	25g
BP2679-250	Rifampicin (Bright Orange Powder)	250mg
BP2679-5	Rifampicin (Bright Orange Powder)	5g
BP2541-1	Staurosporine	1mg
BP2541-100	Staurosporine	100µg
BP2541-500	Staurosporine	500µg
BP910-50	Streptomycin Sulfate (White to Light Yellow Powder)	50g
BP912-100	Tetracycline Hydrochloride (Yellow Powder)	100g

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