

NEW Lab Essential starter program

Quality Sigma-Aldrich® and Millipore® Molecular Biology Essentials from Merck

Merck offers a wide range of products for transformation, plasmid purification, and transfection. Because many molecular biology workflows begin with nucleic acid purification or separation, we provide a complete range of DNA and RNA purification tools and PCR reagents. Whether your goal is to clone and express your gene of interest, sequence cDNA, or study epigenetic changes in disease, we have a range of comprehensive, off-the-shelf solutions to accelerate your discoveries.

See more at: SigmaAldrich.com/molecular-biology

In addition, we are the exclusive, single source supplier of well-respected, high quality reagents and kits from Roche.

Explore our Roche offering at: SigmaAldrich.com/roche

Molecular Biology Essentials

Cat. No.	Product Description	Check
Buffers/Buffer Salts		
A9434-1KG	Ammonium chloride, for molecular biology	<input type="checkbox"/>
A4418-1KG	Ammonium sulfate, for molecular biology, ≥99.0%	<input type="checkbox"/>
A4418-5KG	Ammonium sulfate, for molecular biology, ≥99.0%	<input type="checkbox"/>
B6768-1KG	Boric acid BioReagent, for molecular biology, suitable for cell culture, suitable for plant cell culture, ≥99.5%	<input type="checkbox"/>
RDD001-2.5KG	Guanidine hydrochloride anhydrous, free-flowing, Redi-Dri™, >=99%	<input type="checkbox"/>
H4034-1KG	HEPES, BioPerformance Certified, ≥99.5% (titration), cell culture tested	<input type="checkbox"/>
P5368-10PAK	PBS, Phosphate buffered saline, pH 7.4, BioReagent, for molecular biology	<input type="checkbox"/>
P9541-500G	Potassium chloride, for molecular biology, ≥99.0%	<input type="checkbox"/>
S5761-1KG	Sodium bicarbonate powder, for molecular biology, suitable for cell culture	<input type="checkbox"/>
S6191-1KG	Sodium chloride, BioPerformance Certified, ≥99.5% (titration), Cell Culture Tested	<input type="checkbox"/>
S3264-1KG	Sodium phosphate dibasic, for molecular biology, ≥98.5% (titration)	<input type="checkbox"/>
S6639-1L	SSC Buffer (20X concentrate)	<input type="checkbox"/>
T5816-500G	Tricine, BioPerformance Certified, cell culture tested, ≥99% (titration)	<input type="checkbox"/>
T9650-1L	Tris Acetate-EDTA buffer, 10× concentrate, for molecular biology, DNase and RNase none detected	<input type="checkbox"/>
T9285-100ML	Tris-EDTA Buffer Solution	<input type="checkbox"/>
T6066-5KG	Trizma® base, BioPerformance Certified, meets EP, USP testing specifications, cell culture tested, ≥99.9% (titration)	<input type="checkbox"/>
T5941-1KG	Trizma® hydrochloride, for molecular biology, BioPerformance Certified, cell culture tested, ≥99.0% (titration)	<input type="checkbox"/>

Cat. No.	Product Description	Check
Detergents		
I5502-10G	IPTG, Isopropyl β -D-thiogalactoside $\geq 99\%$ (TLC)	<input type="checkbox"/>
I1284-5ML	IPTG, ReadyMade solution for Blue-white screening	<input type="checkbox"/>
I6758-5G	IPTG $\geq 99\%$ (TLC), $\leq 0.1\%$ Dioxane	<input type="checkbox"/>
I6758-10G	IPTG $\geq 99\%$ (TLC), $\leq 0.1\%$ Dioxane	<input type="checkbox"/>
T3411-1L	Tetramethylammonium chloride solution, for molecular biology	<input type="checkbox"/>
T8787-250ML	Triton [®] X-100, for molecular biology	<input type="checkbox"/>
P9416-100ML	TWEEN [®] 20, for molecular biology	<input type="checkbox"/>
Enzymes		
11558170001	Roche - Bln I (Avr II) from Brevibacterium linens	<input type="checkbox"/>
11054589001	Roche - Endoproteinase Asp-N Sequencing Grade from Pseudomonas fragi	<input type="checkbox"/>
11047817001	Roche - Endoproteinase Glu-C Sequencing Grade from Staphylococcus aureus V8	<input type="checkbox"/>
11047825001	Roche - Endoproteinase Lys-C Sequencing Grade from Lysobacter enzymogenes	<input type="checkbox"/>
3335399001	Roche - Protector RNase Inhibitor	<input type="checkbox"/>
3335402001	Roche - Protector RNase Inhibitor	<input type="checkbox"/>
3115852001	Roche - Proteinase K, recombinant, PCR Grade Lyophilizate from Pichia pastoris	<input type="checkbox"/>
3115879001	Roche - Proteinase K, recombinant, PCR Grade Lyophilizate from Pichia pastoris	<input type="checkbox"/>
3115828001	Roche - Proteinase K, recombinant, PCR Grade Solution from Pichia pastoris	<input type="checkbox"/>
3115844001	Roche - Proteinase K, recombinant, PCR Grade Solution from Pichia pastoris	<input type="checkbox"/>
11775375001	Roche - Uracil-DNA Glycosylase, heat-labile recombinant from marine bacterium BMTU 3346	<input type="checkbox"/>
General Reagents		
B2025-1EA	Brilliant Blue G - Colloidal Concentrate	<input type="checkbox"/>
C4780-100MG	Coenzyme A sodium salt hydrate, BioReagent, suitable for cell culture	<input type="checkbox"/>
H6269-1KG	CTAB, Hexadecyltrimethylammonium bromide for molecular biology, $\geq 99\%$	<input type="checkbox"/>
D4764-5UN	Deoxyribonucleic acid from calf thymus	<input type="checkbox"/>
D9779-5G	DTT, DL-Dithiothreitol, for molecular biology, $\geq 98\%$ (TLC), $\geq 99\%$ (titration)	<input type="checkbox"/>
D9779-10G	DTT, DL-Dithiothreitol, for molecular biology, $\geq 98\%$ (TLC), $\geq 99\%$ (titration)	<input type="checkbox"/>
D9779-25G	DTT, DL-Dithiothreitol, for molecular biology, $\geq 98\%$ (TLC), $\geq 99\%$ (titration)	<input type="checkbox"/>
D9779-50G	DTT, DL-Dithiothreitol, for molecular biology, $\geq 98\%$ (TLC), $\geq 99\%$ (titration)	<input type="checkbox"/>
E7750-25G	EDC, N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride, powder	<input type="checkbox"/>
E7750-100G	EDC, N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride, powder	<input type="checkbox"/>
O3450-5G	EDC, N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride purum, $\geq 98.0\%$	<input type="checkbox"/>
O3450-25G	EDC, N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride purum, $\geq 98.0\%$	<input type="checkbox"/>
E5134-500G	EDTA, disodium salt dihydrate, 99.0-101.0% (titration)	<input type="checkbox"/>
E7889-100ML	EDTA, disodium salt, Ethylenediaminetetraacetic acid disodium salt solution	<input type="checkbox"/>
E3889-500G	EGTA, Ethylene glycol-bis(2-aminoethylether)-N,N,N',N'-tetraacetic acid	<input type="checkbox"/>
F8775-25ML	Formaldehyde solution, for molecular biology, 36.5-38% in H ₂ O	<input type="checkbox"/>
F8775-4X25ML	Formaldehyde solution, for molecular biology, 36.5-38% in H ₂ O	<input type="checkbox"/>
F8775-500ML	Formaldehyde solution, for molecular biology, 36.5-38% in H ₂ O	<input type="checkbox"/>
G6257-1L	Glutaraldehyde solution Grade II, 25% in H ₂ O	<input type="checkbox"/>
G5516-100ML	Glycerol, for molecular biology, $\geq 99\%$	<input type="checkbox"/>
G5516-500ML	Glycerol, for molecular biology, $\geq 99\%$	<input type="checkbox"/>
G5516-1L	Glycerol, for molecular biology, $\geq 99\%$	<input type="checkbox"/>
G1767-1VL	Glycogen from Mytilus edulis (Blue mussel)	<input type="checkbox"/>
50950-2.5KG	Guanidine hydrochloride $\geq 98\%$	<input type="checkbox"/>
G4505-500G	Guanidine hydrochloride $\geq 99\%$ (titration)	<input type="checkbox"/>
G4505-1KG	Guanidine hydrochloride $\geq 99\%$ (titration)	<input type="checkbox"/>
G4505-2KG	Guanidine hydrochloride $\geq 99\%$ (titration)	<input type="checkbox"/>

Cat. No.	Product Description	Check
General Reagents (continued)		
G9277-500G	Guanidine thiocyanate, for molecular biology, ≥99%	<input type="checkbox"/>
H9268-10G	Hexadimethrine bromide, ≥94% (titration)	<input type="checkbox"/>
H1758-100ML	Hydrochloric acid, 36.5-38.0%, BioReagent, for molecular biology	<input type="checkbox"/>
H1758-500ML	Hydrochloric acid, 36.5-38.0%, BioReagent, for molecular biology	<input type="checkbox"/>
I8896-50ML	IGEPAL® CA-630 for molecular biology	<input type="checkbox"/>
N1636-1G	NAD, β-Nicotinamide adenine dinucleotide hydrate ≥99%	<input type="checkbox"/>
N7004-25G	NAD, β-Nicotinamide adenine dinucleotide hydrate ≥99% from yeast	<input type="checkbox"/>
64255-25G-F	MDP, Methylene diphosphonic acid	<input type="checkbox"/>
80645-2L	Piperidine solution for peptide synthesis, 20% in DMF	<input type="checkbox"/>
P1585-1MG	PMA, for use in molecular biology applications, ≥99% (TLC)	<input type="checkbox"/>
P1585-10MG	PMA, Phorbol 12-myristate 13-acetate	<input type="checkbox"/>
P2308-100MG	Proteinase K from Tritirachium album, for molecular biology, activity: ≥30 units/mg protein, lyophilized powder	<input type="checkbox"/>
P9755-25G	Pyridoxine hydrochloride ≥98% (HPLC)	<input type="checkbox"/>
R6513-10MG	Ribonuclease A from bovine pancreas, for molecular biology, activity: ≥70 Kunitz units/mg protein, lyophilized powder	<input type="checkbox"/>
95284-100ML	Water, Molecular Biology Reagent	<input type="checkbox"/>
95284-6X100ML	Water, Molecular Biology Reagent	<input type="checkbox"/>
W4502-1L	Water, Molecular Biology Reagent	<input type="checkbox"/>
W4502-6X1L	Water, Molecular Biology Reagent	<input type="checkbox"/>
F3917-25MG	Forskolin, ≥98% (HPLC), for activation of T cells	<input type="checkbox"/>
10901393001	Roche - Glycogen from mussels	<input type="checkbox"/>
11691112001	Roche - Human Genomic DNA from human blood (buffy coat)	<input type="checkbox"/>
11635379001	Roche - Rapid DNA Ligation Kit	<input type="checkbox"/>
Solvents		
B7906-500ML	1-Butanol, for molecular biology, ≥99.5%	<input type="checkbox"/>
I9516-500ML	2-Propanol, for molecular biology, ≥99.5%	<input type="checkbox"/>
I9516-25ML	2-Propanol, for molecular biology, ≥99.5%	<input type="checkbox"/>
I9516-4X25ML	2-Propanol, for molecular biology, ≥99.5%	<input type="checkbox"/>
D4551-250ML	DMF, N,N-Dimethylformamide for molecular biology, ≥99%	<input type="checkbox"/>
D4551-500ML	DMF, N,N-Dimethylformamide for molecular biology, ≥99%	<input type="checkbox"/>
D8418-50ML	DMSO, Dimethyl sulfoxide, for molecular biology, ≥99.9%	<input type="checkbox"/>
D8418-100ML	DMSO, Dimethyl sulfoxide, for molecular biology, ≥99.9%	<input type="checkbox"/>
D8418-250ML	DMSO, Dimethyl sulfoxide, for molecular biology, ≥99.9%	<input type="checkbox"/>
D8418-500ML	DMSO, Dimethyl sulfoxide, for molecular biology, ≥99.9%	<input type="checkbox"/>
D8418-1L	DMSO, Dimethyl sulfoxide, for molecular biology, ≥99.9%	<input type="checkbox"/>
D2438-5X10ML	DMSO, BioPerformance Certified, sterile filtered, hybridoma tested, meets EP, USP	<input type="checkbox"/>
F9037-100ML	Formamide, ≥99.5% (GC), BioReagent, for molecular biology	<input type="checkbox"/>
P5566-25G	Phenol, BioXtra, ≥99.5% (GC)	<input type="checkbox"/>
P4557-100ML	Phenol solution Equilibrated with 10 mM Tris HCl, pH 8.0, 1 mM EDTA	<input type="checkbox"/>
P4557-400ML	Phenol solution Equilibrated with 10 mM Tris HCl, pH 8.0, 1 mM EDTA	<input type="checkbox"/>
P2069-100ML	Phenol:Chloroform:Isoamyl Alcohol 25:24:1 Saturated with 10 mM Tris, pH 8.0, 1 mM EDTA	<input type="checkbox"/>
P3803-400ML	Phenol:Chloroform:Isoamyl Alcohol 25:24:1 Saturated with 10 mM Tris, pH 8.0, 1 mM EDTA	<input type="checkbox"/>

