

NEW Lab Essential starter program

Sigma-Aldrich® and Millipore® Protein Bioanalysis Solutions from Merck

Effective analysis of proteins is one of the most fundamental challenges facing the life scientist at the beginning of the 21st century. Bioanalysis may require the isolation, separation, detection, identification, and/or quantification of proteins from diverse biological samples. Cell or tissue lysis and protein solubilization are the first steps to effective. Complete recovery and subsequent purification of selective fractions permit global and targeted proteomic study. Proteomics analysis approaches require up- and downstream reagent and instrument compatibility for today's integrated 2D electrophoresis, multi-dimensional chromatography, and mass spectrometry platforms. As a leading global life science business, Merck has the technologically-advanced tools that allow your work to keep pace with modern demands for protein analysis.

See more at: SigmaAldrich.com/proteomics

In addition, we are the exclusive, single source supplier of well-respected, high quality reagents and kits from Roche. These products, paired with our complementary biology offer, provide one-stop access to key materials across your critical workflows.

Explore our Roche offering at: SigmaAldrich.com/roche

Protein Bioanalysis

Cat. No.	Product Description	Check
Extraction & Solubilization		
C8740-100ML	CellLytic™ B, Cell Lysis Reagent suitable for bacterial cell lysis, 10x concentrate	<input type="checkbox"/>
C1990-10X25ML	CellLytic™ EXPRESS	<input type="checkbox"/>
C2978-50ML	CellLytic™ M, Cell Lysis Reagent suitable for Mammalian cell lysis and protein solubilization	<input type="checkbox"/>
C3228-500ML	CellLytic™ MT Cell Lysis Reagent Suitable for mammalian tissues	<input type="checkbox"/>
4693116001	Roche - cOComplete™ Protease Inhibitor Cocktail Tablets provided in EASYpacks	<input type="checkbox"/>
11697498001	Roche - cOComplete™ Protease Inhibitor Cocktail Tablets provided in glass vials	<input type="checkbox"/>
5892970001	Roche - cOComplete™ ULTRA Tablets, Mini, EASYpack Protease Inhibitor Cocktail Tablets supplied in foil blister packs.	<input type="checkbox"/>
5892791001	Roche - cOComplete™ ULTRA Tablets, Mini, EDTA-free, EASYpack Protease Inhibitor Cocktail Tablets supplied in foil blister packs.	<input type="checkbox"/>
4693132001	Roche - cOComplete™, EDTA-free Protease Inhibitor Cocktail Tablets provided in EASYpacks	<input type="checkbox"/>
11836153001	Roche - cOComplete™, Mini Protease Inhibitor Cocktail Tablets provided in a glass vial	<input type="checkbox"/>
4693124001	Roche - cOComplete™, Mini Protease Inhibitor Cocktail Tablets provided in EASYpacks	<input type="checkbox"/>
11836170001	Roche - cOComplete™, Mini, EDTA-free Protease Inhibitor Cocktail Protease Inhibitor Cocktail Tablets provided in a glass vial	<input type="checkbox"/>
10104159001	Roche - DNase I grade II, from bovine pancreas	<input type="checkbox"/>
4716728001	Roche - DNase I recombinant, RNase-free from bovine pancreas, expressed in Pichia pastoris	<input type="checkbox"/>
A3221-10VL	IODOACETAMIDE, VIAL OF 56 MG	<input type="checkbox"/>
10621706001	Roche - NADPH Tetrasodium salt	<input type="checkbox"/>
P5726-1ML	PHOSPHATASE INHIBITOR COCKTAIL 2	<input type="checkbox"/>
P5726-5ML	PHOSPHATASE INHIBITOR COCKTAIL 2	<input type="checkbox"/>
P0044-1ML	PHOSPHATASE INHIBITOR COCKTAIL 3	<input type="checkbox"/>
P0044-5ML	PHOSPHATASE INHIBITOR COCKTAIL 3	<input type="checkbox"/>
4906837001	Roche - PHOSPHATASE INHIBITOR PhosSTOP™, 20 TABLETS	<input type="checkbox"/>

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Extraction & Solubilization (continued)		
4906845001	Roche - PhosSTOP™	<input type="checkbox"/>
10874477001	Roche - Plasminogen from human serum	<input type="checkbox"/>
MSSAFE-1VL	PROTEASE & PHOSPHATASE INHIBITOR INHIBITOR, MS-SAFE	<input type="checkbox"/>
MSSAFE-5VL	PROTEASE & PHOSPHATASE INHIBITOR INHIBITOR, MS-SAFE	<input type="checkbox"/>
11836145001	Roche - PROTEASE INHIBITOR COCKTAIL cOplete™, 3 X 20 TABLETS provided in glass vials	<input type="checkbox"/>
11873580001	Roche - PROTEASE INHIBITOR COCKTAIL cOplete™, EDTA-free, 20 TABLETS provided in glass vials	<input type="checkbox"/>
5056489001	Roche - PROTEASE INHIBITOR COCKTAIL cOplete™, EDTA-FREE, 3 X 20 TABLETS provided in glass vials	<input type="checkbox"/>
4693159001	Roche - PROTEASE INHIBITOR COCKTAIL cOplete™, MINI, EDTA-FREE, EASYPACK, 30 TAB. provided in EASYpacks	<input type="checkbox"/>
P8849-1ML	PROTEASE INHIBITOR COCKTAIL for use in purification of Histidine-tagged proteins	<input type="checkbox"/>
P8849-5ML	PROTEASE INHIBITOR COCKTAIL for use in purification of Histidine-tagged proteins	<input type="checkbox"/>
P1860-1ML	PROTEASE INHIBITOR COCKTAIL for use in tissue culture media	<input type="checkbox"/>
P8340-1ML	PROTEASE INHIBITOR COCKTAIL for use with mammalian cell and tissue extracts	<input type="checkbox"/>
P8340-5ML	PROTEASE INHIBITOR COCKTAIL for use with mammalian cell and tissue extracts, DMSO solution	<input type="checkbox"/>
P2714-1BTL	PROTEASE INHIBITOR COCKTAIL powder for general use, lyophilized powder	<input type="checkbox"/>
S8820-20TAB	PROTEASE INHIBITOR COCKTAIL SIGMAFAST™, tablets For General Use	<input type="checkbox"/>
S8820-2TAB	PROTEASE INHIBITOR COCKTAIL SIGMAFAST™, tablets For General Use	<input type="checkbox"/>
S8830-20TAB	PROTEASE INHIBITOR COCKTAIL SIGMAFAST™, tablets, EDTA-Free	<input type="checkbox"/>
S8830-2TAB	PROTEASE INHIBITOR COCKTAIL SIGMAFAST™, tablets, EDTA-Free	<input type="checkbox"/>
R0278-500ML	RIPA BUFFER	<input type="checkbox"/>
R0278-50ML	RIPA BUFFER	<input type="checkbox"/>
3707598001	Roche - β-Glucuronidase from E. coli K 12	<input type="checkbox"/>
3707601001	Roche - β-Glucuronidase from E. coli K 12	<input type="checkbox"/>
10127698001	Roche - β-Glucuronidase/Arylsulfatase from Helix pomatia	<input type="checkbox"/>

Protein Purification

Cat. No.	Product Description	Check
Protein Chromatography		
D5751-5G	BLUE DEXTRAN MOL. WT. 2,000,000	<input type="checkbox"/>
D5751-1G	BLUE DEXTRAN MOL. WT. 2,000,000	<input type="checkbox"/>
C7901-100G	CHELATING RESIN (IMINODIACETIC ACID)	<input type="checkbox"/>
GE17-0430-01	CNBR ACTIVATED SEPHAROSE 4B, 15 G	<input type="checkbox"/>
GE17-0851-01	COLUMN PD 10	<input type="checkbox"/>
C9142-1G	CYANOGEN BROMIDE-ACTIVATED SEPHAROSE 4B	<input type="checkbox"/>
D1411-1G	D-DESTHIOBIOTIN	<input type="checkbox"/>
D1411-500MG	D-DESTHIOBIOTIN	<input type="checkbox"/>
54805	Disposable PD-10 Desalting Column	<input type="checkbox"/>
44290-2.5KG	DOWEX 1 X 2, CL(-)-FORM, chloride form	<input type="checkbox"/>
F3256-10ML	Fetuin-Agarose, saline suspension	<input type="checkbox"/>
GE28-4038-41	GEL FILTRATION CAL KIT LMW	<input type="checkbox"/>
MWGF200-1KT	Gel Filtration Markers Kit for Protein Molecular Weights 12,000-200,000 Da	<input type="checkbox"/>
MWGF1000-1KT	Gel Filtration Markers Kit for Protein Molecular Weights 29,000-700,000 Da	<input type="checkbox"/>
GE17-0756-01	GLUTATHIONE SEPHAROSE 4B, 10 ML	<input type="checkbox"/>
GE17-5112-01	HITRAP STREPTAVIDIN HP, 5X1 ML	<input type="checkbox"/>
GE17-0790-01	OCTYL-SEPHAROSE CL-4B, 200 ML	<input type="checkbox"/>
GE28-9180-04	PD SPINTRAP G-25	<input type="checkbox"/>
GE17-0810-01	PHENYL-SEPHAROSE CL-4B, 200 ML	<input type="checkbox"/>
P1411-10ML	POLYMYXIN B-AGAROSE	<input type="checkbox"/>
GE17-0510-01	Q SEPHAROSE FAST FLOW, 300 ML	<input type="checkbox"/>
GE17-1177-01	RESOURCE Q, 1 ML	<input type="checkbox"/>
G2580-500G	SEPHADEX® G-25	<input type="checkbox"/>
GE17-0032-02	SEPHADEX® G-25 FINE, 500 G	<input type="checkbox"/>
G50150-500G	SEPHADEX® G-50	<input type="checkbox"/>
GE17-0090-01	SEPHADEX® LH-20, 100 G	<input type="checkbox"/>
G5050-100G	SEPHADEX® G-50	<input type="checkbox"/>
S1638-5ML	STREPTAVIDIN-AGAROSE	<input type="checkbox"/>
T9145-1VL	Thyroglobulin from bovine thyroid (For Gel Filtration Chromatography)	<input type="checkbox"/>
Post Translational Modifications (Glycosylation)		
G0413-1VL	β-GALACTOSIDASE, POSITIONALLY SPECIFIC	<input type="checkbox"/>
A6805-1VL	β-N-ACETYLGLUCOSAMINIDASE, RECOMBINANT,	<input type="checkbox"/>
EDEGLY-1KT	ENZYMATIC PROTEIN DEGLYCOSYLATION KIT	<input type="checkbox"/>
F3023-1VL	FUCOSIDASE α-1-(3,4) solution from Xanthomonas sp.	<input type="checkbox"/>
F5884-2UN	FUCOSIDASE α-L- FROM BOVINE KIDNEY	<input type="checkbox"/>
PP0520-1KT	GLYCOPROFILE 2-AB LABELING KIT	<input type="checkbox"/>
G4548-12EA	GLYCOPROFILE GLYCAN CLEAN-UP CARTRIDGES	<input type="checkbox"/>
L7759-1MG	LECTIN from ARACHIS HYPOGAEA*PEROXIDASE	<input type="checkbox"/>
L2140-1MG	LECTIN from BANDEIRAEA SIMPLICIFOLIA	<input type="checkbox"/>
C5275-5MG	LECTIN from CANAVALLIA ENSIFORMIS TYPE IV	<input type="checkbox"/>
L4144-5MG	LECTIN from Phaseolus vulgaris (red kidney bean), Leucoagglutinin PHA-L, lyophilized powder	<input type="checkbox"/>

Cat. No.	Product Description	Check
Post Translational Modifications (Glycosylation) (continued)		
L1668-5MG	LECTIN from Phaseolus vulgaris (red kidney bean), Phytohemagglutinin PHA-P, lyophilized powder	<input type="checkbox"/>
10269611001	Roche - Neuraminidase (Sialidase) from Arthrobacter ureafaciens	<input type="checkbox"/>
N3786-1SET	NEURAMINIDASE α (2-3,6,8,9) from Arthrobacter ureafaciens, suitable for MALDI-TOF MS	<input type="checkbox"/>
N8271-.2UN	NEURAMINIDASE α -2(3,6,8,9) from Clostridium perfringens	<input type="checkbox"/>
11365193001	Roche - N-Glycosidase F recombinant form of the gene from Flavobacterium meningosepticum	<input type="checkbox"/>
P7367-50UN	PNGASE F from Elizabethkingia meningoseptica	<input type="checkbox"/>
Recombinant Protein Purification & Detection		
F4799-4MG	3X FLAG PEPTIDE	<input type="checkbox"/>
C3956-.2MG	ANTI-C-MYC	<input type="checkbox"/>
A5598-500UG	ANTI-C-MYC, PEROXIDASE CONJUGATE produced in rabbit	<input type="checkbox"/>
F7425-.2MG	ANTI-FLAG® ANTIBODY produced in rabbit	<input type="checkbox"/>
A2220-10ML	ANTI-FLAG® M2 AFFINITY GEL	<input type="checkbox"/>
A2220-5ML	ANTI-FLAG® M2 AFFINITY GEL	<input type="checkbox"/>
A2220-1ML	ANTI-FLAG® M2 AFFINITY GEL	<input type="checkbox"/>
M8823-1ML	ANTI-FLAG® M2 MAGNETIC BEADS	<input type="checkbox"/>
F3165-1MG	ANTI-FLAG® M2 MONOCLONAL ANTIBODY produced in mouse	<input type="checkbox"/>
11815016001	Roche - Anti-HA Affinity Matrix from rat IgG1	<input type="checkbox"/>
11867423001	Roche - Anti-HA High Affinity from rat IgG1	<input type="checkbox"/>
5893682001	Roche - COMPLETE HIS-TAG PURIFIC. RESIN, 25 ML	<input type="checkbox"/>
F2426-1ML	EZview™ Red ANTI-FLAG® M2 AFFINITY GEL	<input type="checkbox"/>
F3290-25MG	FLAG PEPTIDE	<input type="checkbox"/>
GE29-0005-94	HIS GRAVITRAP TALON	<input type="checkbox"/>
GE17-5478-14	HISCREEN CAPTO L	<input type="checkbox"/>
GE17-5474-15	HISCREEN MABSELECT SURE LX	<input type="checkbox"/>
S5688-1EA	HIS-SELECT® HIGH SENSITIVITY (HS) Nickel Coated Plates	<input type="checkbox"/>
P6611-100ML	HIS-SELECT® NICKEL AFFINITY GEL	<input type="checkbox"/>
P6611-25ML	HIS-SELECT® NICKEL AFFINITY GEL	<input type="checkbox"/>
P6611-5ML	HIS-SELECT® NICKEL AFFINITY GEL	<input type="checkbox"/>
GE17-1408-01	HITRAP DESALTING, 5X5ML	<input type="checkbox"/>
GE11-0034-93	HITRAP MABSELECT SURE, 5X1ML	<input type="checkbox"/>
GE17-0717-01	HITRAP NHS-ACTIV HP, 1 X 5 ML	<input type="checkbox"/>
GE17-0403-03	HITRAP PROTEIN A HP, 5 X 5 ML	<input type="checkbox"/>
54840-U	HITRAP PROTEIN G COLUMN 1ML, PK5	<input type="checkbox"/>
54841	HITRAP PROTEIN G COLUMN 5ML	<input type="checkbox"/>
GE17-0404-01	HITRAP PROTEIN G HP, 5 X 1 ML	<input type="checkbox"/>
GE17-0405-01	HITRAP PROTEIN G HP, 1 X 5 ML	<input type="checkbox"/>
GE17-5478-15	HITRAP PROTEIN L, 1 X 5 ML	<input type="checkbox"/>
GE17-5079-01	HITRAP RPROTEIN A FF, 5X1ML	<input type="checkbox"/>
M4439-100UL	MONOCLONAL ANTI-C-MYC, CLONE 9E10,	<input type="checkbox"/>
F2047-100UG	MONOCLONAL Anti-c-Myc-FITC ANTIBODY produced in mouse	<input type="checkbox"/>
F4049-.2MG	MONOCLONAL ANTI-FLAG® M2-FITC, CONJUGATE produced in mouse	<input type="checkbox"/>
F9291-.2MG	MONOCLONAL ANTI-FLAG® BIOM2-BIOTIN, ANTIBODY, produced in mouse	<input type="checkbox"/>
F1804-200UG	MONOCLONAL ANTI-FLAG® M2 ANTIBODY, produced in mouse	<input type="checkbox"/>
F1804-50UG	MONOCLONAL ANTI-FLAG® M2 ANTIBODY, produced in mouse	<input type="checkbox"/>
F3165-.2MG	MONOCLONAL ANTI-FLAG® M2, ANTIBODY produced in mouse	<input type="checkbox"/>
A9469-1MG	MONOCLONAL ANTI-FLAG® M2-Alkaline Phosphatase antibody produced in mouse	<input type="checkbox"/>
A8592-.2MG	MONOCLONAL ANTI-FLAG® M2-Peroxidase (HRP) antibody produced in mouse	<input type="checkbox"/>
F1804-5MG	MONOCLONAL ANTI-FLAG® M2 ANTIBODY, produced in mouse	<input type="checkbox"/>
H1029-.2ML	MONOCLONAL ANTI-POLYHISTIDINE ANTIBODY, produced in mouse	<input type="checkbox"/>
H1029-.5ML	MONOCLONAL ANTI-POLYHISTIDINE ANTIBODY, produced in mouse	<input type="checkbox"/>
A7058-1VL	MONOCLONAL ANTI-POLYHISTIDINE-Peroxidase ANTIBODY, produced in mouse	<input type="checkbox"/>
GE28-9031-33	PROTEIN A HP MULTITRAP	<input type="checkbox"/>
P7700-1G	PROTEIN G -AGAROSE	<input type="checkbox"/>
P3296-5ML	PROTEIN G-SEPHAROSE 4 FAST FLOW	<input type="checkbox"/>
P3296-1ML	PROTEIN G-SEPHAROSE 4 FAST FLOW	<input type="checkbox"/>
RECOMT-1KT	THROMBIN CleanCleave(TM) Kit	<input type="checkbox"/>

Protein Bioanalysis

Cat. No.	Product Description	Check
Protein Detection		
11093274910	Roche - Anti-Digoxigenin-AP, Fab fragments from sheep	<input type="checkbox"/>
11814460001	Roche - Anti-GFP from mouse IgG1 κ (clones 7.1 and 13.1)	<input type="checkbox"/>
B6404-100ML	BCIP®/NBT SOLUTION, PREMIXED	<input type="checkbox"/>
BCA1-1KT	BICINCHONINIC ACID KIT for Protein Determination for 200-1000 μ g/ml protein	<input type="checkbox"/>
B9643-1L	BICINCHONINIC ACID SOLUTION	<input type="checkbox"/>
B6916-500ML	BRADFORD REAGENT	<input type="checkbox"/>
11493027001	Roche - IsoStrip™ Mouse Monoclonal Antibody Isotyping Kit	<input type="checkbox"/>
3010040001	Roche - PVDF Western Blotting Membranes	<input type="checkbox"/>

Cat. No.	Product Description	Check
Protein Detection (continued)		
QPBCA-1KT	QUANTIPRO™ BCA ASSAY KIT	<input type="checkbox"/>
S2438-250UG	STREPTAVIDIN - PEROXIDASE POLYMER;*ULTRAS	<input type="checkbox"/>
T1949-500ML	TOTAL PROTEIN REAGENT, BIURET METHOD	<input type="checkbox"/>
Protein Digestion		
P3303-1VL	ENDOPROTEINASE ASP-N from Pseudomonas fragi mutant strain	<input type="checkbox"/>
P6181-50UG	ENDOPROTEINASE GLU-C from Staphylococcus aureus V8 >=85% (HPLC)	<input type="checkbox"/>
P3428-1VL	ENDOPROTEINASE LYS-C from Lysobacter enzymogenes	<input type="checkbox"/>
11047825001	ENDOPROTEINASE LYS-C SEQ. GRADE, 3X5UG	<input type="checkbox"/>
T6567-5X20UG	TRYPsin from porcine pancreas	<input type="checkbox"/>

LC-MS analysis

Cat. No.	Product Description	Check
HPLC Columns		
67086-U	BIOshell™ A160 Peptide C18, 2.7 µm , 2.7 µm particle size, L × I.D. 15 cm × 75 µm	<input type="checkbox"/>
67015-U	BIOshell™ A160 Peptide C18, 5 µm ,4.7 µm particle size, L × I.D. 15 cm × 4.6 mm	<input type="checkbox"/>
67483-U	BIOshell™ A400 Protein C18 Column, L × I.D. 5 cm × 4.6 mm, 3.4 µm particle size	<input type="checkbox"/>
67045-U	BIOshell™ A400 Protein C4, 3.4 µm HPLC Column, 3.4 µm particle size, L × I.D. 15 cm × 1 mm	<input type="checkbox"/>
66824-U	BIOshell™ A400 Protein C4, 3.4 µm HPLC Column, 3.4 µm particle size, L × I.D. 5 cm × 2.1 mm	<input type="checkbox"/>
66827-U	BIOshell™ A400 Protein C4, 3.4 µm HPLC Column, 3.4 µm particle size, L × I.D. 5 cm × 4.6 mm	<input type="checkbox"/>
66825-U	BIOshell™ A400 Protein C4, 3.4 µm HPLC Column,3.4 µm particle size, L × I.D. 10 cm × 2.1 mm	<input type="checkbox"/>
50994-U	BIOshell™ Glycan HPLC Columns, L × I.D. 15 cm × 2.1 mm	<input type="checkbox"/>
818762	TSKGEL® SUPER SW GUARD COLUMN,L × I.D. 3.5 cm × 4.6 mm, 4 µm particle size	<input type="checkbox"/>
808540	TSKGEL® G2000SW 300 X 7.8 MM, 5 µm particle size	<input type="checkbox"/>
808541	TSKGEL® G3000SW 300 X 7.8 MM, 5 µm particle size	<input type="checkbox"/>
818675	TSKGEL® SUPERSW3000 4UM 250A 30CMX4.6MM, 4 µm particle size	<input type="checkbox"/>
808543	TSKGEL® SWXL Type Guard Column phase diol, L × I.D. 4 cm × 6 mm, 7 µm particle size	<input type="checkbox"/>
MS-Standards		
MSCAL3-1KT	PROTEOMASS PROTEIN MALDI-MS *CALIBRATION	<input type="checkbox"/>
UPS2-1SET	PROTEOMIC DYNAMIC RANGE STANDARD KIT	<input type="checkbox"/>
UPS1-5X1KT	UNIVERSAL PROTEOMICS STANDARD SET	<input type="checkbox"/>
Reagents		
299251-10G	AMMONIUM-15N CHLORIDE, 98 ATOM % 15N	<input type="checkbox"/>
299286-20G	AMMONIUM-15N SULFATE, 98+ ATOM % 15N	<input type="checkbox"/>
389374-25G	D-GLUCOSE-13C6, 99 ATOM % 13C	<input type="checkbox"/>
552151-5G	D-GLUCOSE-13C6-1,2,3,4,5,6-D7, 99 atom % 13C	<input type="checkbox"/>
606871-1G	ISOGRO-15N POWDER-GROWTH MEDIUM 98%	<input type="checkbox"/>
4381663-1KT	ITRAQ® REAGENT- 8PLEX MULTIPLEX KIT	<input type="checkbox"/>
608033-500MG	L-ARGININE-13C6, 15N4 HYDROCHLORIDE, 99 atom % 15N, 99 atom % 13C, 95% (CP)	<input type="checkbox"/>
608041-1G	L-LYSINE-13C6,15N2 HYDROCHLORIDE, 99 atom % 13C, 99 atom % 15N, 95% (CP)	<input type="checkbox"/>

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