Nucleus Protocols

Prepare Protein Purification Buffers and Media — Bill of Materials

Name	Category	Product	Manufacturer	Part #	Price	Storage	Link
Potassium Hydroxide	Salts	Potassium hydroxide - ACS reagent, ≥85%, pellets	Sigma-Aldrich	221473-1KG	$99.90	4 °C to 30 °C	link
Hydrochloric acid (1M)	Salts	Hydrochloric acid 1 N, Reagent Grade, 500 mL	VWR	E447-500L	$72.46	4 °C to 30 °C	link
HEPES	Salts	HEPES, Crystalline Powder, ≥99.5%, Poly bottle	Sigma-Aldrich	H3375-500G	$431	4 °C to 30 °C	link
Imidazole	Salts	ReagentPlus® Imidazole, Crystalline, 99%	Sigma-Aldrich	I202-500G	$120	4 °C to 30 °C	link
Ammonium Chloride	Salts	Ammonium chloride, ACS reagent, ≥99.5%	Sigma-Aldrich	213330-500G	$73.50	4 °C to 30 °C	link
Sodium Chloride	Salts	Sodium Chloride, Redi-Dri™ , anhydrous, ACS, ≥99%	Sigma-Aldrich	746398-1KG	$133.00	4 °C to 30 °C	link
Potassium Chloride	Salts	Potassium Chloride, ACS reagent, 99.0-100.5%	Sigma-Aldrich	P3911-1KG	$146.00	4 °C to 30 °C	link
Magnesium Chloride hexahydrate	Salts	BioXtra $MgCl_2 \cdot 6H_2O$, Powder or Crystals, ≥99.0%	Sigma-Aldrich	M2670-100G	$50.50	4 °C to 30 °C	link
Glycerol	Supplements	Glycerol, Molecular Biology Grade, Liquid, ≥99.0%	Sigma-Aldrich	G5516-1L	$157.00	4 °C to 30 °C	link

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Lysozyme	Supplements	Lysozyme from chicken egg white, ≥40 000 units/mg, lyophilized	Sigma-Aldrich	L6876-1G	$76.90	−25 °C to −15 °C	link
TCEP-HCl (0.5M)	Supplements	Bond-Breaker® TCEP Neutral Solution, 5 mL	Thermo Scientific	77720	$175.65	4 °C to 30 °C	link
cOmplete Protease Inhibitor	Supplements	cOmplete™ Protease Inhibitor Cocktail, EDTA-Free, Tablets	Roche	11873580001	$472	1 °C to 4 °C	link
LB	Media	Luria Broth (Miller's LB Broth), Molecular Biology Grade, Powder	Sigma-Aldrich	L3522-1KG	$221	4 °C to 30 °C	link
IPTG	Media	Isopropyl β -D-thiogalactoside, Powder, ≥99% (TLC)	Sigma-Aldrich	I6758-1G	$89.90	−25 °C to −15 °C	link
Kanamycin	Media	Kanamycin sulfate, BioReagent, ≥750 µg/mg, Powder	Sigma-Aldrich	K1377-1G	$47.70	4 °C to 30 °C	link
15 mL centrifuge tubes	Consumables	Corning® 15 mL PP Centrifuge Tubes, Sterile, 50/Rack	Corning	430790	$230.44	4 °C to 30 °C	link
10 mL Luer lock syringes	Consumables	Syringes with BD Luer-Lok® Tip, 10 mL	BD Industrial/Difco	550-80620-PK	$102.40	4 °C to 30 °C	link
0.22 µm syringe filters	Consumables	PES Syringe Filter, 0.22µm, 30mm, Sterile	CELLTREAT	229747	$84	4 °C to 30 °C	link

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0.22 µm vacuum filters	Consumables	Corning® 500 mL Vacuum Filter, 0.22 µm PES Membrane, Sterile	Corning	431097	$187.14	4 °C to 30 °C	link