Nucleus Protocols

Make Ribosomes — Bill of Materials

Name	Category	Product	Manufacturer	Part #	Price	Storage	Link
HEPES	Salts	HEPES, Crystalline Powder, ≥99.5% (titration), Poly bottle	Sigma-Aldrich	H3375-500G	$431	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
Ammonium Sulfate	Salts	Ammonium sulfate,BioXtra, ≥99.0%	Sigma-Aldrich	A2939-1KG	$188.00	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 Acetate	Salts	Magnesium acetate tetrahydrate	Sigma-Aldrich	M0631-100G	$34.80	4 °C to 30 °C	link
Potassium Hydroxide	Salts	Potassium hydroxide - ACS reagent, ≥85%, pellets	Sigma-Aldrich	221473-1KG	$99.90	4 °C to 30 °C	link
Sodium Chloride	Salts	Sodium Chloride, Redi-Dri™ , anhydrous, free-flowing, ACS, ≥99%	Sigma-Aldrich	746398-1KG	$133.00	4 °C to 30 °C	link
Sodium Hydroxide (pellets)	Salts	Sodium hydroxide, ACS Reagent Grade, Pellets, ≥97.0%, Poly bottle	Sigma-Aldrich	221465-1KG	$137.00	4 °C to 30 °C	link
Acetic Acid (glacial)	Supplements	Acetic Acid, Glacial (Certified ACS), Fisher Chemical	Fisher Scientific	A38-212	$458	4 °C to 30 °C	link

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Sucrose	Supplements	Sucrose, bioultra, for molecular biology, ≥99.5% (HPLC)	Sigma-Aldrich	84097-1KG	$170.00	4 °C to 30 °C	link
TCEP	Supplements	Thermo Scientific, Bond-Breaker® Tris[2-Carboxyethyl]phosphine Neutral Solution (TCEP), Application=Water-Soluble Reducing Agent, Molecular Weight=286.65, Size=5 mL	Thermo Scientific	77720	$175.65	4 °C to 30 °C	link
Ethanol	Supplements	Ethanol, HPLC/Spectrophotometric Grade, Liquid, ≥99.5%, Glass bottle, 200 Proof	Sigma-Aldrich	459828-4L	$493.00	4 °C to 30 °C	link
Laemmli Buffer (6x)	Supplements	Laemmli SDS-Sample Buffer (6x, Reducing)	Boston BioProducts	BP-111R	$42.00	4 °C to 30 °C	link
LB	Media	Luria Broth (Miller's LB Broth), Non-Sterile, pH 6.8-7.2, Molecular Biology Grade, Powder	Sigma-Aldrich	L3522-1KG	$221	4 °C to 30 °C	link
A19 *E. coli*	Strains	A19 (RNase I mutant)	CGSC	5997	$130.00	−80 °C	link
Culture tubes (14 mL)	Consumables	14mL Culture Tube and Dual Cap, PP, Sterile	CELLTREAT	230439	$190.00	4 °C to 30 °C	link

Name	Category	Product	Manufacturer	Part #	Price	Storage	Link
2 L baffled Erlenmeyer flasks	Consumables	PYREX® 2L Delong Shaker Erlenmeyer Flask with Baffles	Corning	4444-2L	$96.44	4 °C to 30 °C	link
1 L centrifuge bottles	Consumables	Thermo Scientific™ # Fiberlite 1000mL Bottles	Thermo Scientific	010-1491	$326.84	4 °C to 30 °C	link
0.22 µm syringe filters	Consumables	PES Syringe Filter, 0.22µm, 30mm, Sterile	CELLTREAT	229747	$84.00	4 °C to 30 °C	link
Butyl HIC columns (5 mL)	Columns	HiTrap Butyl HP Column	Cytiva	28-4110-05	$679.00	4 °C to 30 °C	link
15 mL centrifuge tubes	Consumables	Corning® 15 mL PP Centrifuge Tubes, Rack Packed with CentriStar™ Cap, Sterile, 50/Rack, 500/Case	Corning	430790	$230.44	4 °C to 30 °C	link
Polycarbonate ultracentrifuge bottles (70 mL)	Consumables	70 mL Polycarbonate Bottle Assembly, 38 x 102mm - 6Pk	Beckman Coulter	355622	$687.60	4 °C to 30 °C	link
100 kDa centrifugal filter	Consumables	Amicon® Ultra Centrifugal Filter, 100 kDa MWCO	EMD Millipore	UFC910008	$141.00	4 °C to 30 °C	link
Tris-Glycine 4–20% gels	Consumables	4–20% Mini-PROTEAN® TGX™ Precast Protein Gels, 10-well, 50 µL	BioRad	4561094	$153.00	1 °C to 4 °C	link