Nucleus Protocols

Make tRNAs — Bill of Materials

Name	Category	Product	Manufacturer	Part #	Price	Storage	Link
Sodium Acetate	Salts	Sodium acetate trihydrate,ACS reagent, ≥99%	Sigma-Aldrich	236500-500G	$87.90	4 °C to 30 °C	link
Magnesium Acetate	Salts	Magnesium acetate tetrahydrate	Sigma-Aldrich	M0631-100G	$34.80	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
Acetic Acid (glacial)	Salts	Acetic Acid, Glacial (Certified ACS), Fisher Chemical	Fisher Scientific	A38-212	$458	4 °C to 30 °C	link
Acid Phenol (pH 4.5)	Supplements	Invitrogen ambion Acid Phenol:Chloroform, pH 4.5 (with IAA, 125:24:1)	Fisher Scientific	AM9722	$313.65	2 °C to 8 °C	link
Isopropanol	Supplements	BioReagent 2-Propanol, Molecular Biology Grade, Liquid, ≥99.5%	Sigma-Aldrich	I9516-1L	$142.00	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

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SYBR-Green stain	Supplements	Invitrogen sybr Green I Nucleic Acid Gel Stain 10,000x concentrate in DMSO	Fisher Scientific	S7567	$791.70	–25 °C to –15 °C	link
2x TBE-Urea sample buffer	Supplements	Invitrogen novex TBE-Urea Sample Buffer (2x)	Thermo Scientific	LC6876	$75.60	2 °C to 8 °C	link
NEB low range ssRNA ladder	Supplements	Low Range ssRNA Ladder - 100 gel lanes	New England Biolabs	N0364S	$87.00	–25 °C to –15 °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
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

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50 mL centrifuge tubes	Consumables	Corning® 50 mL Polypropylene Centrifuge Tubes, Sterile, Racked, CentriStar™ Cap	Corning	430828	$436.88	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
Slide-A-Lyzer G3 Dialysis Cassettes (3.5 kDa)	Consumables	Slide-A-Lyzer™ G3 Dialysis Cassettes, 3.5K MWCO	Thermo Scientific	A52966	$128.70	4 °C to 30 °C	link
Amicon Ultra 0.5 mL - 3 kDa	Consumables	Amicon® Ultra Centrifugal Filter, 3 kDa MWCO	Millipore Sigma	UFC5003	$63.00	4 °C to 30 °C	link
TBE-Urea 10% gel	Consumables	10% Mini-PROTEAN	Bio-Rad	4566033	$41.00	2 °C to 8 °C	link
glass serological pipettes	Consumables	PYREX® 10 mL Glass Serological Pipets, Sterile, Individually Paper/Plastic Wrapped, Plugged	Corning	7077-10N	$690.49	4 °C to 30 °C	link