Nucleus Protocols

Lyse Bacteria by Sonication — Bill of Materials

Name	Category	Product	Manufacturer	Part #	Price	Storage	Link
Sonicator	Equipment	Q700 Sonicator	QSonica	Q700A-110	$5500	4 °C to 30 °C	link
Sonicator Probe	Equipment	Standard Probe, Replaceable Tip, 1/2″ (12.7mm) diameter	QSonica	4220	$670	4 °C to 30 °C	link
Sound Enclosure	Equipment	Sound Enclosure	QSonica	432B2	$995	4 °C to 30 °C	link
Lab Jack	Equipment	Fisherbrand™ Lab Jacks (15cmx15cm)	Fisher Scientific	14-673-51	$484	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
10 mL Luer Lock Syringes	Consumables	Syringes with BD Luer-Lok® Tip, BD Medical, Syringe with Luer-Lok® Tip, Volume=10 mL	BD Industrial/Difco	550-80620-PK	$102.40	4 °C to 30 °C	link
0.45 µm syringe filters	Consumables	PES Syringe Filter, 0.45μm, 30mm, Sterile	CELLTREAT Scientific Products	229749	$84	4 °C to 30 °C	link
Potassium Hydroxide	Salts (for Buffers)	Potassium hydroxide - ACS reagent, ≥85%, pellets	Sigma-Aldrich	221473-1KG	$99.90	4 °C to 30 °C	link

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HEPES	Salts (for Buffers)	HEPES, Crystalline Powder, ≥99.5% (titration), Poly bottle	Sigma-Aldrich	H3375-500G	$431	4 °C to 30 °C	link
Ammonium Chloride	Salts (for Buffers)	Ammonium chloride, ACS reagent, ≥99.5%	Sigma-Aldrich	213330-500G	$73.50	4 °C to 30 °C	link
Sodium Chloride	Salts (for Buffers)	Sodium Chloride, Redi-Dri™ , anhydrous, free-flowing, ACS, ≥99%	Sigma-Aldrich	746398-1KG	$133.00	4 °C to 30 °C	link
Magnesium Chloride hexahydrate	Salts (for Buffers)	BioXtra Magnesium chloride, Hexahydrate, Powder or Crystals, ≥99.0%	Sigma-Aldrich	M2670-100G	$50.50	4 °C to 30 °C	link
Lysozyme	Supplements (for Buffers)	Lysozyme from chicken egg white, protein ≥90%, ≥40 000 units/mg protein, lyophilized powder	Sigma-Aldrich	L6876-1G	$76.90	−25 °C to −15 °C	link
TCEP-HCl (0.5M; presuspended)	Supplements (for Buffers)	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

Name	Category	Product	Manufacturer	Part #	Price	Storage	Link
cOmplete Protease Inhibitor	Supplements (for Buffers)	cOmplete™ Protease Inhibitor Cocktail, EDTA-Free, Tablets	Roche	11873580001	$472	1 °C to 4 °C	link