

Summary Specification	
BIL. SEBUTHARGA/QUOTATION REF.:	UBD/Q/067/2026 (FOS) - [G]
TARIKH DIKLANKAN :	09 Jun 2026 [Selasa]
TARIKH TUTUP :	23 Jun 2026 [Selasa] JAM: 2 Petang
DOCUMENT FEE : B\$ 10.00	

Important Note:

The Official PDF quotation/tender form will be send via email once UBD Official receipt issued and send to vendors/supplier for confirmation of payment received.

Please take note that the document fee for each of the New and Extended quotations will be BND 10.00 each

Payment Information

Quotations/tenders are identified as follows:

[G] – Kerajaan (Government Account)

Please ensure payment is made to the correct account:

[G] → UNIVERSITI BRUNEI DARUSSALAM [KERAJAAN]

Payment details and account numbers are available under “Mode of Payment” on the UBD website

Note: Please ensure that you provide the correct details when making the payment.

Please email proof of the above payment to helpdesk.epay@ubd.edu.bn , finance@ubd.edu.bn, eprocurement.support@ubd.edu.bn.

TITLE :		<u>TO SUPPLY AND DELIVER CHEMICALS TO ENVIRONMENTAL AND LIFE SCIENCES UNIVERSITI BRUNEI DARUSSALAM</u>
No.	Quantity	SPECIFICATIONS
1	2 btl	Catechol oxidase 500G (enzyme) Enzyme Class: Oxidoreductase (EC 1.10.3.1). Active Site: A dinuclear type 3 copper center (CuA and CuB), typically with each copper atom coordinated by three histidine residues. Molecular Weight: Mature enzyme is generally around 39-40 kDa (e.g., 38.96 kDa in sweet potato), though it is synthesized as a larger precursor (~67 kDa). Optimum pH: 4.0 to 8.0, with high activity frequently found around pH 6.5. Optimal Temperature: Sensitive to high heat; denatures around 80 degC. Substrate Specificity: Acts exclusively on o-diphenols and substituted catechols. Unlike tyrosinase, it lacks the ability to hydroxylate monophenols.
2	2 btl	Catechol (chemical compound) 500G 120-80-9 Molecular Formula: C6H6O2 Molecular Weight: 110.11 g/mol Appearance: White to pale grey-brown crystalline flakes/powder Physical State: Crystalline solid Odor: Faint, characteristic odor Vapor Pressure: 10 mmHg at 245F
3	2 btl	Para-hydroxy benzoic acid (PHBA) 500G 99-96-7 Para-hydroxy benzoic acid (PHBA), or 4-hydroxybenzoic acid, is a white crystalline solid primarily used as a precursor to parabens, liquid crystal polymers. Chemical Formula: C7H6O3 Molecular Weight: 138.12 g/mol Appearance: White to off-white, cream-colored powder or crystals Purity (Assay): 99.0% Melting Point: 213 - 217 °C (415 - 423 °F) Density: 1.40 - 1.46 g/cm ³ Solubility in Water: Slightly soluble (approx. 0.5 g/100 ml at 25 °C) Solubility in Organics: Soluble in alcohols, acetone, and ether
4	2 btl	Phenylthiourea 250 g Appearance (Color) White to cream to yellow to pale brown Form Crystals or crystalline powder or powder and/or granules Assay (HPLC) ≥96.0% Comment May contain darker particulates from manufacturing process. Do NOT impact on product quality. Identification (FTIR) Conforms

5	2 btl	<p>Cholesterol 25G 57-88-5</p> <p>Cholesterol grade C8503 derived from sheep wool, available as a powder with an assay of less than 92.5% (GC). It is commonly used for biological research, such as creating lipid membranes or immune-stimulating complexes, and is stored at room temperature</p> <p>Source: Sheep Wool Form: Powder Melting Point: 147-149 °C Storage Temperature: Room Temperature Solubility: Soluble in water at 0.00003 g/L at 20 °C</p>
6	2 btl	<p>Nutrient Agar 500g</p> <p>Suspension Concentration: Typically 23-30 grams per liter of distilled water. Sterilization: Autoclave at 121°C (15 psi) for 15 minutes. Storage: Store dry powder at 2°C to 25°C/30°C (room temperature)</p> <p>Oxoid is a culture media that used to cultivate and isolate fastidious pathogens and other microorganisms. This non-selective medium contains beef extracts combined with peptone, yeast extracts and sodium chloride to provide the nitrogen compounds, carbon, vitamins and some trace ingredients necessary for the growth of bacteria. A general-purpose medium which may be enriched with up to 10% blood or other biological fluid.</p>
7	2 btl	<p>Phosphate Buffer 500g</p> <p>Phosphate Buffer (pH 7.2) 500g is a dehydrated powder commonly used for microbiological dilution blanks (e.g., APHA standard), yielding roughly 14–15 liters per 500g container. Typically, it is prepared by dissolving 34 g in 1 Liter of distilled water, yielding a final pH of 7.2 ± 0.2 at 25 °C</p> <p>Appearance: White, homogeneous, free-flowing powder. Composition (per Liter): Approximately 26.22 g Monopotassium Phosphate and 7.78 g Sodium Carbonate (or similar phosphate salts).</p> <p>Sterilization: Autoclave at 121 °C for 15 minutes. Storage: Store at room temperature (typically 2-30°C), keep tightly closed in a dry place.</p>
8	2 btl	<p>Iron Sulphate Pentahydrate 500g 142906-29-4</p> <p>Molecular Weight: 489.96 g/mol Purity/Grade: Typically 97% or 99.9% trace metals basis</p> <p>Appearance: Beige-yellow to white powder or crystals Solubility: Soluble in water Melting Point: Decomposes before melting (standard for this compound) Coagulant: Used in water treatment to extract suspended solids and impurities. Etchant: Used in PCB (printed circuit board) production to remove copper. Catalyst: Used in chemical synthesis</p>
9	2 btl	<p>Monosodium phosphate Anhydrous (NaH₂PO₄) 500 g 7558-80-7</p> <p>Formula Weight: 119.98 g/mol Appearance: Colorless-to-white crystals Assay: 99% Melting Point: 203.9deg C (decomposition)</p>
10	2 btl	<p>Yeast extract 500 g</p> <p>Yeast extract is used as food additive, flavor enhancer in processed foods of all kinds and as nutrient for bacterial culture media. It is used to create savoury flavors and umami taste sensations.</p> <p>Form Powder Sodium Chloride ≤0.5% Total Nitrogen 10-11.8% Appearance (Color) Cream to pale yellow to pale brown Loss on Drying ≤8.0% Amino Nitrogen 4.5-5.8% pH 6.8-7.2 (2% solution)</p>

11	2 btl	<p>D-Galactose 500g</p> <p>D-(+)-Galactose was used for examining the specificity of staining with SBA-FITC during labeling of cells for fluorescence-activated cell sorting (FACS).[1] It was used for selecting the transformed strains of <i>S. cerevisiae</i></p> <p>form powder</p> <p>Quality Level 200</p> <p>quality meets analytical specification of Ph. Eur., BP</p> <p>technique(s) IR spectroscopy: suitable</p> <p>impurities acid. or alk. react. impurities, in accordance, microbiological impurity, in accordance, residual solvents, in accordance, ≤1.0% water (Karl Fischer)</p> <p>color white</p> <p>useful pH range 5.0-7.0 (25 °C, 180 g/L)</p> <p>mp 168-170 °C (lit.)</p> <p>solubility H2O: soluble 180 g/L at 20 °C</p> <p>suitability in accordance for appearance of solution, in accordance for identity (IR)</p> <p>application(s) pharmaceutical (small molecule)</p>
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