AuSaMicS™ Life Science

TECHNICAL DATA SHEET

AS-1268 | LB Agar (Lennox)

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LB Agar (Lennox) — Technical Data Sheet

Catalogue Number: AS-1268

Product Identification

Product Name	LB Agar (Lennox)
Catalogue Number	AS-1268
HS Code	3821.00.00
Medium Type	Dehydrated non-selective solid culture medium
Physical Form	Fine homogeneous powder
Colour (powder)	Light beige to cream
Colour (prepared)	Clear to slightly amber solid agar
Original Reference	Lennox E.S. (1955) Virology 1:190
ATCC Medium	ATCC Medium 1065

Composition (per litre of prepared medium)

Component	CAS Number	Function	Amount
Tryptone (Pancreatic Digest of Casein)	73049-73-7	Nitrogen, carbon, amino acids, peptides	10.0 g
Yeast Extract	8013-01-2	B-vitamins, growth factors, nucleotides	5.0 g
Sodium Chloride	7647-14-5	Osmotic balance (reduced-salt Lennox)	5.0 g
Agar	9002-18-0	Solidifying agent	15.0 g

Total per litre: 35.0 g | Final pH: 7.0 ± 0.2 at 25 °C | NaCl: 5.0 g/L (Lennox)

Physical & Chemical Specifications

Appearance (powder)	Light beige to cream fine homogeneous powder
Appearance (prepared)	Clear to slightly amber solid agar
pH (prepared medium, 25 °C)	7.0 ± 0.2
Loss on Drying (moisture)	≤ 5.0%
Gel strength	Firm agar — 20–25 mL per 90 mm Petri dish
Solubility	Completely soluble in purified water on heating
NaCl concentration	5.0 g/L — Lennox (reduced-salt) formulation
Osmolarity (approximate)	~220 mOsm/kg (vs ~310 mOsm/kg for Miller)
Selectivity	Non-selective — broad range of bacteria
Differential	Non-differential (standard formulation)

Preparation Instructions

1. Suspend 35.0 g of dehydrated medium in 1 litre of demineralised or purified water.
2. Heat with agitation until fully dissolved.
3. Verify pH and adjust to 7.0 ± 0.2 if required.
4. Sterilise by autoclaving at 121 °C for 15 minutes.
5. Cool to 45–50 °C before adding supplements.
6. Add filter-sterilised antibiotics or supplements aseptically.
7. Dispense 20–25 mL per 90 mm sterile Petri dish.
8. Allow to solidify on a level surface at room temperature.

Performance Characteristics

Organism	ATCC No.	Expected Result	Incubation
Escherichia coli K-12	23716	Good growth — cream 1–3 mm colonies	37 °C, 12–18 h
E. coli DH5α	N/A	Good growth — suitable for cloning	37 °C, 12–16 h
E. coli BL21(DE3)	N/A	Good growth — protein expression	37 °C, 12–16 h
E. coli TOP10	N/A	Good growth — cloning host	37 °C, 12–16 h

Salmonella typhimurium	14028	Good growth	37 °C, 18–24 h

Storage & Stability

Dehydrated powder	15–30 °C, tightly closed
Protect from	Moisture, light, extreme temperatures
Plates (no antibiotics)	2–8 °C, inverted, up to 4 weeks
Plates (with antibiotics)	2–8 °C, use within 1–2 weeks
Shelf life	As per labelled expiry date

Quality Standards & References

Original Reference	Lennox E.S. (1955) Virology 1:190–206
Standard References	Sambrook & Russell — Molecular Cloning; Current Protocols in Molecular Biology
ATCC Medium	ATCC Medium 1065
Batch Release Testing	pH, appearance, moisture, performance vs E. coli ATCC 23716
Country of Manufacture	Australia

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