



SAFETY DATA SHEET

AS-1334 | Presence-Absence (P-A) Broth
www.ausamics.com.au

Safety Data Sheet

Presence-Absence (P-A) Broth | Catalogue No. AS-1334

Prepared in accordance with the Australian WHS Regulations and GHS (7th Edition)

SECTION 1 — Identification

Product Name	Presence-Absence (P-A) Broth
Catalogue Number	AS-1334
Intended Use	Double-strength differential broth for presumptive coliform detection in drinking water — laboratory use only
Supplier	AuSaMicS Pty Ltd 31 Longview CT, Thomastown, VIC 3074, Australia
ABN	56 676 640 467
Emergency Phone	+61 412 520 598 Poisons Information Centre: 13 11 26 (Australia, 24 hr)
Email	support@ausamics.com.au
Website	www.ausamics.com.au

SECTION 2 — Hazard Identification

GHS Classification: Not classified as a hazardous substance under Australian WHS Regulations 2017 at typical laboratory quantities.

Signal Word: None

Hazard Statements: None applicable for chemical hazards.

Precautionary Statements: P260 — Do not breathe dust. P264 — Wash hands after handling. P270 — Do not eat, drink, or smoke while using. P501 — Dispose of contents per local regulations.

Biological Hazard Note: Drinking water samples and inoculated media may contain coliform bacteria and potential pathogens. Handle all inoculated bottles in accordance with applicable Biosafety Level (BSL) requirements. Autoclave all used media at 121 °C for 30 minutes before disposal.

SECTION 3 — Composition / Information on Ingredients



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Component	CAS Number	Proportion	Classification
Tryptose / Lactose Broth base	73049-73-7	~49.5%	Not classified
Lactose	63-42-3	~13.9%	Not classified
Sodium Chloride	7647-14-5	~13.9%	Not classified
Dipotassium Phosphate	7758-11-4	~7.7%	Not classified
Monopotassium Phosphate	7778-77-0	~7.7%	Not classified
Sodium Lauryl Sulfate	151-21-3	~0.3%	Irritant (GHS)
Bromocresol Purple	115-40-2	<0.1%	Not classified at this level

Note: Sodium lauryl sulfate (SLS) is present at 0.2 g/L (0.3% w/w) in the dehydrated product. At this concentration and with normal laboratory handling, it is not considered hazardous. Standard PPE precautions apply.

SECTION 4 — First Aid Measures

Inhalation	Remove to fresh air. Seek medical attention if symptoms persist.
Skin Contact	Wash with soap and water for at least 15 minutes. Remove contaminated clothing.
Eye Contact	Irrigate with water for at least 15 minutes. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Rinse mouth. Seek medical attention.
Most important symptoms	Dust may cause mild respiratory irritation. Sodium lauryl sulfate may cause skin or eye irritation on prolonged contact.
Medical attention	Symptomatic treatment. No specific antidote.

SECTION 5 — Fire-Fighting Measures

Flammability	Not flammable under normal conditions
Suitable extinguishing media	CO ₂ or dry chemical powder
Specific hazards	Decomposes on combustion producing CO, CO ₂ , nitrogen oxides, and sulfur oxides



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Protective equipment

Wear self-contained breathing apparatus if involved in fire

SECTION 6 — Accidental Release Measures

Powder spill: Avoid generating dust. Wear P1 dust mask and nitrile gloves. Sweep up carefully and collect in sealed labelled container. Clean area with water.

Inoculated liquid spill: Treat as biological hazard. Absorb with paper towels. Disinfect area with 1% hypochlorite solution. Collect all contaminated material and autoclave before disposal.

SECTION 7 — Handling and Storage

Handling: Standard laboratory precautions. Avoid generating dust. Do not eat, drink, or smoke while handling. Wash hands thoroughly after use. Inoculated media — handle per BSL requirements applicable to the water source.

Storage: Dehydrated powder: 15–30 °C, tightly sealed, dry. Prepared bottles: 2–8 °C, protected from light, use within 3 months.

SECTION 8 — Exposure Controls / Personal Protection

Occupational exposure limits	No specific OEL. Apply general dust WES: 10 mg/m ³ (inhalable, AU).
Respiratory protection	P1 dust mask if handling powder in poorly ventilated area
Eye protection	Safety glasses or goggles — mandatory for inoculated work
Skin protection	Disposable nitrile gloves; lab coat
Engineering controls	Well-ventilated laboratory. BSL-appropriate containment for inoculated media.
Hygiene measures	Wash hands before eating, drinking, or leaving the laboratory.

SECTION 9 — Physical and Chemical Properties

Appearance

Cream to pale beige fine homogeneous powder



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Odour	Faint characteristic odour
pH (prepared medium, 25 °C)	6.8 ± 0.2
Solubility	Completely soluble in purified water
Moisture content	< 5.0%
Bulk density	~400–600 g/L (approximate)
Flammability	Not flammable
Vapour pressure	Not applicable (solid)

SECTION 10 — Stability and Reactivity

Stability	Stable under recommended storage conditions
Conditions to avoid	Moisture, excessive heat, direct sunlight
Incompatible materials	Strong oxidising agents, strong acids, strong alkalis
Hazardous decomposition products	CO, CO ₂ , nitrogen oxides, sulfur oxides (on combustion)
Hazardous polymerisation	Will not occur

SECTION 11 — Toxicological Information

Acute oral toxicity	Not classified; components of low oral toxicity at working concentrations
Skin irritation	Sodium lauryl sulfate may cause mild irritation with prolonged contact
Eye irritation	Sodium lauryl sulfate may cause irritation — flush immediately
Respiratory sensitisation	No known sensitisation potential
Carcinogenicity	No components listed as carcinogens (IARC, NTP, OSHA)
Biological hazard	Inoculated media may contain pathogenic organisms — handle per BSL requirements



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SECTION 12 — Ecological Information

Aquatic toxicity	Sodium lauryl sulfate is toxic to aquatic organisms at high concentrations — do not dispose of large quantities to drain
Persistence / degradability	Biodegradable biological components; SLS is readily biodegradable
Bioaccumulation potential	Not expected to bioaccumulate

SECTION 13 — Disposal Considerations

Uninoculated medium: Dispose via licensed chemical waste contractor or as general laboratory waste per local EPA regulations.

Inoculated / used bottles: Autoclave at 121 °C for 30 minutes to inactivate coliforms and any other organisms before disposal. Dispose of decontaminated liquid per institutional policy. Do not pour untreated coliform-positive media to drain.

SECTION 14 — Transport Information

UN Number	Not applicable
Proper shipping name	Not regulated as dangerous goods
Dangerous goods class	Not classified — ADG / IATA / IMDG
Packing group	Not applicable
Special precautions	Keep dry during transport. Protect from extreme temperatures.

SECTION 15 — Regulatory Information

WHS Regulations 2017	Compliant — not classified as hazardous
ARTG / TGA	Not registered — laboratory use only
US EPA	40 CFR 141.21 approved method medium
AICIS	Not subject to registration for stated laboratory use



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Transport (ADG/IATA)

Not classified as dangerous goods

SECTION 16 — Other Information

Prepared by	AuSaMicS Pty Ltd — Quality Assurance
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GHS version	7th Edition (2017)
Supersedes	All previous versions
Key references	Safe Work Australia; US EPA 40 CFR 141.21; APHA Standard Methods 9221 B

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