



SAFETY DATA SHEET

AS-1395 | 2× YT Agar
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Safety Data Sheet

2× YT Agar | Catalogue No. AS-1395

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

SECTION 1 — Identification

Product Name	2× YT Agar (Double-Strength Yeast Tryptone Agar)
Catalogue Number	AS-1395
Intended Use	Non-selective solid culture medium — laboratory research, molecular biology, and educational use only
Supplier	AuSaMicS Pty Ltd 31 Longview CT, Thomastown, VIC 3074, Australia
ABN	56 676 640 467
Emergency Phone	+61 412 520 598
Email	support@ausamics.com.au
Website	www.ausamics.com.au

SECTION 2 — Hazard Identification

GHS Classification: Not classified as hazardous according to the GHS criteria (AU WHS Regulations 2011).

Signal Word: None

Hazard Statements: None applicable.

Precautionary Statements: Handle with standard laboratory precautions. Avoid dust inhalation. Wash hands after handling.

This product is not classified as dangerous goods under the Australian Dangerous Goods Code (ADG Code).

SECTION 3 — Composition / Information on Ingredients

Component	CAS Number	Proportion	Classification
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Tryptone (Pancreatic Digest of Casein)	73049-73-7	~34.8%	Not classified
Yeast Extract	8013-01-2	~21.7%	Not classified
Sodium Chloride	7647-14-5	~10.9%	Not classified
Agar	9002-18-0	~32.6%	Not classified

SECTION 4 — First Aid Measures

Inhalation	Remove to fresh air. If symptoms persist, seek medical advice.
Skin Contact	Wash thoroughly with soap and water. Remove contaminated clothing.
Eye Contact	Flush with copious amounts of water for at least 15 minutes. Seek medical advice if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth with water. Seek medical advice if large quantities ingested.
Most important symptoms	Dust may cause mild respiratory or eye irritation upon prolonged exposure.
Medical attention	Symptomatic treatment. No specific antidote required.

SECTION 5 — Fire-Fighting Measures

Flammability	Not flammable under normal conditions
Suitable extinguishing media	Use media appropriate to surrounding fire conditions
Specific hazards	Decomposes on combustion producing CO, CO ₂ , and nitrogen oxides
Protective equipment	Wear self-contained breathing apparatus if involved in fire

SECTION 6 — Accidental Release Measures

- Avoid generating dust. Wear a dust mask (P1) and nitrile gloves.
- Sweep up or vacuum spilled material and place in a suitable sealed container.
- Clean the area with water. Do not wash large quantities to drain.



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- Dispose of in accordance with local, state, and federal regulations.

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.

Storage: Store at 15–30 °C in a cool, dry place, container tightly sealed. Protect from moisture, direct sunlight, and strong oxidising agents. Prepared plates: store at 2–8 °C, inverted.

SECTION 8 — Exposure Controls / Personal Protection

Occupational exposure limits	No specific OEL established. Apply general inhalable dust limit: 10 mg/m ³ (AU WES).
Respiratory protection	Dust mask (P1) recommended if handling in poorly ventilated areas
Eye protection	Safety glasses recommended when handling powder
Skin protection	Disposable nitrile or latex laboratory gloves recommended
Engineering controls	Well-ventilated laboratory. Local exhaust ventilation if significant dust is generated.
Hygiene measures	Wash hands before eating, drinking, or leaving the laboratory.

SECTION 9 — Physical and Chemical Properties

Appearance	Light beige to cream fine homogeneous powder
Odour	Faint characteristic yeast/broth odour
pH (prepared medium, 25 °C)	7.0 ± 0.2
Solubility	Completely soluble in purified water on heating
Moisture content	≤ 5.0%
Bulk density	~400–600 g/L (approximate)
Melting point	Not applicable (decomposes)



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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 (>40 °C), direct sunlight
Incompatible materials	Strong oxidising agents, strong acids, strong alkalis
Hazardous decomposition products	Carbon monoxide, carbon dioxide, nitrogen oxides (on combustion)
Hazardous polymerisation	Will not occur

SECTION 11 — Toxicological Information

Based on the nature and known toxicological profiles of the ingredients (tryptone, yeast extract, sodium chloride, agar), this product is of low toxicological concern when used as directed.

Acute oral toxicity	Not classified; all components of low oral toxicity
Skin irritation	Not expected to cause significant skin irritation
Eye irritation	Dust may cause mild mechanical irritation
Respiratory sensitisation	No known sensitisation potential
Carcinogenicity	No components listed as carcinogens (IARC, NTP, OSHA)
Reproductive toxicity	Not classified
STOT	Not classified

SECTION 12 — Ecological Information

This product is derived from natural biological materials and is not expected to be environmentally hazardous in the quantities used in laboratory settings.



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Aquatic toxicity	Not classified as hazardous to aquatic organisms
Persistence / degradability	Readily biodegradable (natural biological materials)
Bioaccumulation potential	Not expected to bioaccumulate

SECTION 13 — Disposal Considerations

Inoculated prepared agar must be autoclaved (121 °C, 30 minutes) before disposal. Unused dehydrated powder may be disposed of as general laboratory waste in accordance with local regulations. Do not dispose of large quantities of agar plates without decontamination.

SECTION 14 — Transport Information

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

SECTION 15 — Regulatory Information

All ingredients are listed on the Australian Inventory of Industrial Chemicals (AIIC). This product is intended for laboratory research and educational use only and is not subject to AICIS registration for this intended use. Users are responsible for compliance with all applicable WHS Regulations 2011.

SECTION 16 — Other Information

Prepared by	AuSaMicS Pty Ltd — Quality Assurance
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Date of preparation	March 2026
Version	1.0
GHS version	7th Edition (2017)
Supersedes	All previous versions
Key references	Safe Work Australia; Sambrook & Russell — Molecular Cloning

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