



SAFETY DATA SHEET

AS-1398 | 2× YT Broth

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Safety Data Sheet

2× YT Broth | Catalogue No. AS-1398

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

SECTION 1 — Identification

| | |
|-------------------------|--------------------------------------------------------------------------------------------------------|
| Product Name | 2× YT Broth (Double-Strength Yeast Tryptone Broth) |
| Catalogue Number | AS-1398 |
| Intended Use | Non-selective liquid 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 | ~51.6% | Not classified |
| Yeast Extract | 8013-01-2 | ~32.3% | Not classified |
| Sodium Chloride | 7647-14-5 | ~16.1% | 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.
- Dispose of in accordance with local, state, and federal regulations.



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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. Prepared broth: store at 2–8 °C, use within 1 week.

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. |
| 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 | Readily and completely soluble in purified water |
| Moisture content | ≤ 5.0% |
| Bulk density | ~400–600 g/L (approximate) |
| Melting point | Not applicable (decomposes) |
| Flammability | Not flammable |



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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), 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

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



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SECTION 13 — Disposal Considerations

Inoculated liquid cultures 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.

SECTION 14 — Transport Information

| | |
|------------------------------|---------------------------------------------------------------|
| UN Number | Not applicable |
| Proper shipping name | Not regulated as dangerous goods |
| Dangerous goods class | Not classified |
| 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). Not subject to AICIS registration for stated laboratory use. Users are responsible for compliance with all applicable WHS Regulations 2011.

SECTION 16 — Other Information

| | |
|----------------------------|-------------------------------------------------------------|
| Prepared by | AuSaMicS Pty Ltd — Quality Assurance |
| 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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