



## Safety Data Sheet

SDS-AS-1249

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Prepared in accordance with Australian WHS Regulations 2017 & GHS (7th Revision) | Issue Date: March 2026 | Rev: 1.0

### Section 1 — Identification

Product Name	Helicobacter pylori Selective Medium Base
Other Names	H. pylori Selective Medium; Columbia Blood Agar Base + Selective Supplement
Catalog No.	AS-1249
Intended Use	Selective microbiological culture medium — for laboratory use only (PC2 facility required)
Supplier	AuSaMicS Pty Ltd, 31 Longview CT, Thomastown VIC 3074, Australia
ABN	56 676 640 467
Phone	+61 412 520 598
Email / Web	<a href="mailto:support@ausamics.com">support@ausamics.com</a> / <a href="http://www.ausamics.com.au">www.ausamics.com.au</a>
Emergency (24h)	Poisons Information Centre: 13 11 26 (Australia)

### Section 2 — Hazard Identification

GHS Classification	Base medium (powder): not classified as hazardous under GHS as supplied. Antibiotic supplement: see Section 3.
Signal Word	Warning (amphotericin B: irritant; trimethoprim: suspected reproductive toxicant)
Hazard Statements	H315: Causes skin irritation. H319: Causes serious eye irritation. H360 (trimethoprim, Cat. 2): May damage fertility or the unborn child.
Precautionary Stmts.	P201 · P260 · P264 · P270 · P280 · P308+P313 · P501
Pictograms	GHS07 (Exclamation mark); GHS08 (Health hazard — trimethoprim reproductive toxicant)
Biological Hazard	CAUTION: This medium is designed to culture H. pylori — a human pathogen (PC2). Treat all cultures as biohazardous. Follow AS/NZS 2243.3:2010.

### Section 3 — Composition / Information on Ingredients



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Component	CAS No.	Proportion (w/w)	GHS Classification
Agar (bacteriological)	9002-18-0	~25.6%	Not classified
Peptone (mixed)	—	~58.9%	Not classified
Cornstarch (soluble)	9005-25-8	~2.6%	Not classified
Sodium Chloride	7647-14-5	~12.8%	Not classified
Vancomycin HCl	1404-93-9	< 0.1%	H315 · H319 · H335
Trimethoprim	738-70-5	< 0.1%	H315 · H319 · H360 (Cat. 2)
Cefsulodin sodium	52152-93-9	< 0.1%	H315 · H317 · H319
Amphotericin B	1397-89-3	< 0.1%	H315 · H317 · H319 · H335
Defibrinated sheep blood	—	5–10% v/v (supplement)	Biological material — PC2 precautions

### Section 4 — First Aid Measures

Inhalation	Remove to fresh air. If symptoms persist, seek medical advice. Trimethoprim dust: avoid repeated inhalation.
Skin Contact	Wash thoroughly with soap and water for at least 15 minutes. Remove contaminated clothing. If rash or irritation develops (cefsulodin/amphotericin B sensitisation), seek medical advice.
Eye Contact	Rinse immediately with copious water for at least 15 minutes, holding eyelids open. Seek prompt medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water. Seek medical advice. Show this SDS to physician.
Biological	If culture spill or skin puncture from contaminated instrument occurs: wash area thoroughly, report to biosafety officer, seek medical advice. H. pylori: seek gastroenterology follow-up.

### Section 5 — Fire-Fighting Measures

Flash Point	Not applicable (powder/agar-based medium)
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Extinguishing Media	CO <sub>2</sub> , dry chemical, or water spray
Hazardous Products	CO, CO <sub>2</sub> , NO <sub>x</sub> on combustion; antibiotic decomposition products
Fire-Fighting PPE	SCBA and full protective clothing; treat as biohazardous if cultures present

### Section 6 — Accidental Release Measures

Chemical Spill (powder)	Avoid dust generation. Wear PPE (gloves, P2 mask, goggles). Collect with damp cloth. Dispose per Section 13.
Biological Spill (prepared medium/cultures)	BIOHAZARD SPILL: Apply suitable disinfectant (e.g. 70% ethanol or 1% hypochlorite). Contact time ≥ 30 min. Absorb with disposable towels. Autoclave all contaminated material. Report per institutional biosafety policy.
Environmental	Prevent entry to drains or waterways. Notify biosafety officer for culture spills.

### Section 7 — Handling and Storage

Handling	PC2 laboratory required for culture work. Wear PPE. Use biological safety cabinet (BSC Class II). Do not mouth pipette. No eating, drinking, or smoking in laboratory.
Storage — Dehydrated	15–30 °C, dry place, tightly closed, protected from light and humidity
Storage — Prepared	2–8 °C, sealed bags, use within 2 weeks
Incompatible Materials	Strong oxidising agents; concentrated acids and bases; β-lactamase-producing organisms (may degrade cefsulodin)

### Section 8 — Exposure Controls / Personal Protection

OEL (Safe Work Australia)	Trimethoprim: no specific WES — apply ALARA (reproductive toxicant). Others: no specific WES.
Engineering Controls	Class II Biological Safety Cabinet for all culture work. Local exhaust ventilation when weighing powder.
Respiratory	P2 mask when generating dust. Full face PAPR for high-risk procedures.
Hand Protection	Nitrile gloves (EN 374 / AS/NZS 2161) — double-glove for culture work



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Eye / Face	Safety glasses / goggles; face shield for culture spill risk
Body Protection	Dedicated lab coat or gown; closed footwear; consider disposable apron
Pregnancy / Fertility	Trimethoprim (H360): pregnant women or those planning pregnancy should avoid handling. Seek occupational health advice.

### Section 9 — Physical and Chemical Properties

Property	Value
Physical State (25 °C)	Solid (powder)
Colour	Light beige to pale pink
Odour	Faint, characteristic
pH (prepared, 25 °C)	7.3 ± 0.2
Melting / Solidification	Gels ~32–34 °C / Melts ~84–86 °C
Flash Point	Not applicable
Vapour Pressure	Negligible
Solubility	Dissolves on heating; sheep blood supplement added after cooling
Explosive / Oxidising	Not explosive; not oxidising

### Section 10 — Stability and Reactivity

Stability	Stable under recommended storage conditions
Conditions to Avoid	Heat > 50 °C after blood addition (lyses RBCs); moisture; direct sunlight
Materials to Avoid	Strong oxidising agents; $\beta$ -lactamase activity (degrades cefsulodin); strong acids/bases
Hazardous Decomposition	CO, CO <sub>2</sub> , NO <sub>x</sub> on combustion; antibiotic degradation products under extreme conditions

### Section 11 — Toxicological Information

Acute Oral Toxicity	Low for base medium components; antibiotic supplements at supplied concentrations — low acute risk
Skin Irritation	H315 — antibiotic components may cause mild skin irritation
Eye Irritation	H319 — causes serious eye irritation
Sensitisation	Cefsulodin (beta-lactam): potential cross-sensitisation in penicillin-allergic individuals. Amphotericin B: may cause sensitisation.
Reproductive Toxicity	Trimethoprim: H360 — May damage fertility or the unborn child (Cat. 2). Pregnant workers must avoid exposure.
Carcinogenicity	Not classified at supplied concentrations
STOT (single)	H335 — may cause respiratory irritation (vancomycin, amphotericin B dust)
Biological Hazard	H. pylori (IARC Group I carcinogen): treat all prepared media and cultures as potentially infectious biological material

### Section 12 — Ecological Information

Aquatic Toxicity	Amphotericin B and cefsulodin may be toxic to aquatic organisms — prevent discharge to waterways
Biodegradability	Major components (agar, peptones, blood) are biodegradable. Antibiotics: limited persistence data.
Bioaccumulation	Not expected for major components
Antibiotic Resistance	Prevent discharge of antibiotic-containing waste to environment — risk of resistance gene dissemination

### Section 13 — Disposal Considerations

Waste Classification	Treat as clinical/biohazardous waste — contains antibiotic agents and designed for pathogen culture
Prepared Medium (used)	Autoclave at 134 °C for 18 min (prion-safe cycle) or 121 °C for 30 min. Dispose as clinical waste.
Prepared Medium (unused)	Autoclave before disposal. Contact licensed clinical waste contractor.



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Dehydrated Powder	Dispose as chemical/clinical waste via licensed contractor
Sharps / Instruments	Dispose in approved sharps container. Do not recap needles.
Regulation	AS/NZS 3816:1998 (Management of clinical and related wastes); EPA Vic / state equivalent

### Section 14 — Transport Information

UN Number (base powder)	Not regulated as dangerous goods in standard quantities
UN Number (live cultures)	UN 3373 Biological Substance Category B (if containing <i>H. pylori</i> cultures)
ADG / IATA (cultures)	Comply with ADG Code / IATA P650 packing instructions for Category B biological substances
IMDG	Comply with IMDG Code for biological substance shipments

### Section 15 — Regulatory Information

AICS (Australia)	All chemical components listed on AICS
SUSMP Schedule	Trimethoprim: Schedule 4 (Prescription Only). Amphotericin B: Schedule 4. Supplied for laboratory use only.
WHS Regulations	Mixture contains hazardous chemicals and is designed for pathogen culture — WHS Regulations 2017 apply
Biological Safety	<i>H. pylori</i> : Risk Group 2 organism per AS/NZS 2243.3:2010 — PC2 containment required
REACH (EU)	Components comply with REACH Regulation (EC) No. 1907/2006

### Section 16 — Other Information

SDS Prepared By	AuSaMicS Pty Ltd — Technical & Quality Department
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Review Date	March 2027 or upon regulatory change



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### Key References

Safe Work Australia; GHS 7th Rev.; AS/NZS 2243.3:2010; WHS Regulations 2017; IATA DGR

### Disclaimer

Information based on current knowledge at issue date. Verify suitability for specific application.

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**Disclaimer:** *AuSaMicS Pty Ltd (ABN 56 676 640 467) warrants that this product meets the specifications stated herein at time of manufacture and release. This product is for laboratory and research use only. Not intended for human, animal, food, feed, or pharmaceutical use. AuSaMicS Pty Ltd shall not be held liable for any direct, indirect, incidental, or consequential damages resulting from use outside its intended application. By using this product the purchaser agrees to these terms.*