



TECHNICAL DATA SHEET

AS-1379 | Yeast Extract Agar
www.ausamics.com.au

Yeast Extract Agar — Technical Data Sheet

Catalogue Number: AS-1379

Product Identification

Product Name	Yeast Extract Agar
Catalogue Number	AS-1379
HS Code	3821.00.00
Intended Use	Plate count of microorganisms in water — highly nutritive non-selective solid medium
Physical Form	Dehydrated powder
Colour (powder)	Light beige to cream
Colour (prepared plates)	Clear to pale amber transparent agar
Also known as	YEA, Yeast Extract Agar, HPC Agar
Related products	R2A Agar (AS-1396) — ultra-low nutrient HPC; Nutrient Agar (AS-1307) — general purpose
Formula note	Adjusted and standardised to suit performance parameters and other reliable sources

Composition (per litre of prepared medium)

Ingredient	CAS Number	Function	Amount (g/L)
Peptone	73049-73-7	Primary nitrogen and carbon source	5.0
Yeast Extract	8013-01-2	Vitamins, growth factors, minerals	3.0
Agar	9002-18-0	Solidifying agent	15.0
Purified Water	7732-18-5	Solvent	q.s. 1 L

Total: 23.0 g/L | Final pH: 7.2 ± 0.2 at 25 °C

Formula adjusted and standardised to suit performance parameters and other reliable sources.



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Physical & Chemical Specifications

Appearance (powder)	Light beige to cream fine homogeneous powder
Appearance (prepared plates)	Clear to pale amber transparent solid agar
pH (prepared medium, 25 °C)	7.2 ± 0.2
Loss on Drying (moisture)	≤ 5.0%
Solubility	Completely soluble with heating; gels on cooling below ~45 °C
Gel strength	Firm solid agar at 15 g/L
Selectivity	Non-selective — broad-spectrum recovery
Transparency	Clear — colony observation from beneath plate possible

Performance Characteristics

Organism	ATCC No.	Incubation	Expected Result	Reference
Escherichia coli	25922	35 °C, 48 h	Good growth — cream/white colonies	APHA / ISO 8199
Staphylococcus aureus	25923	35 °C, 48 h	Good growth — cream/golden colonies	Internal
Pseudomonas aeruginosa	27853	35 °C, 48 h	Good growth — green pigment	Internal
Bacillus subtilis	6633	35 °C, 48 h	Good growth — rough/spreading colonies	Internal
Saccharomyces cerevisiae	9763	25 °C, 5 days	Good growth — cream smooth colonies	ISO 21527
Aspergillus brasiliensis	16404	25 °C, 5 days	Good growth — black sporulating colonies	ISO 21527

Medium Comparisons — HPC Applications

Feature	Yeast Extract Agar (AS-1379)	R2A Agar (AS-1396)	Nutrient Agar (AS-1307)
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Peptone	5.0 g/L	0.5 g/L	5.0 g/L
Yeast Extract	3.0 g/L	0.5 g/L	3.0 g/L
Total nutrients	8.0 g/L	~3.5 g/L	8.0 g/L
pH	7.2 ± 0.2	7.2 ± 0.2	7.4 ± 0.2
Primary use	Water HPC, food & env. QC	Drinking water HPC (stressed cells)	General routine culture
Key standards	APHA, ISO 8199, ISO 6222	APHA, US EPA, ISO 6222	General purpose

Storage & Stability

Dehydrated powder	15–30 °C, tightly sealed, dry
Prepared plates	2–8 °C, inverted, sealed; use within 2 weeks
Shelf life (powder)	As per labelled expiry date

Quality Standards & References

APHA Standard Methods	Standard Methods for Examination of Water and Wastewater — HPC
ISO 8199 / ISO 6222	Heterotrophic plate count of water
ISO 21527	Yeast and mould enumeration in food and feed
Country of Manufacture	Australia

Disclaimer

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