

Media Type - R2A (Reasoner's 2A)

Technical characteristics: The medium's nutritionally reduced formulation consists of:

Typical formulation:	g/ltr
Yeast extract	0.5
Proteose peptone	0.5
Casein hydrolysate	0.5
Glucose	0.5
Starch	0.5
Di-potassium phosphate	0.3
Magnesium sulphate	0.024
Sodium pyruvate	0.3
Agar	15.0

Fresh pH 7.2 ±0.2

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Organisms & morphology: R2A agar is recommended for the isolation and recovery of aerobic and facultative heterotrophic bacteria.

Organism	Morphology			Gram		Biochemical test	
	Edge	Shape	Colour	Gram	Shape	Catalase	Oxidase
Staphylococcus aureus	Smooth	Regular	Cream	Positive	Cocci	Positive	Negative
Escherichia coli	Smooth	Regular	Cream	Negative	Rods	Positive	Negative
Bacillus subtilis	Irregular	Irregular	Cream	Positive	Rods	Positive	Variable
Pseudomonas aeruginosa	Smooth	Regular	Cream	Negative	Rods	Positive	Positive
Enterococcus faecalis	Regular	Regular	Cream	Positive	Cocci	Negative	Negative

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Regulatory references: R2A is a Harmonised Pharmacopoeia medium and as such is mentioned in the BP/EP/JP, as well as the US Pharmacopoeia.

EP Chapter Ref 6.3 Microbiological monitoring of water

Recommended Culture Media	Property	Micro-organisms	Incubation Time & Temp
R2A	Growth promotion	Bacillus subtilis Pseudomonas aeruginosa	30-35°C for < 3 days

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