

Identification	Plated Media – R2A Agar			Issue
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R2A Agar - EP

R2A Agar are used for the total count of microorganisms in water used for the pharmaceutical industry, e.g for water for injections in bulk, highly purified water and purified water in bulk. The medium is a nutritionally reduced medium to stimulate the growth of micro-organism that are adapted to low nutrient environments such as water. It was demonstrated that using this medium and incubating for longer at lower temperatures enhanced the recovery of stressed and chlorine damaged bacteria from treated waters resulting in higher, more realistic bacterial counts.

Typical Formula / Litre Agar

Formula	g/litre
Casein acid Hydrolysate	0,5 g
Yeast Extract	0,5 g
Proteose Peptone	0,5 g
Dextrose	0,5 g
Starch	0,3 g
Di-potassium phosphat	0,024 g
Magnesium sulphate	0,3 g
Sodium Pyruvate	0,3 g
Agar	15 g

Growth Promotion Testing

Test strains	ATCC No	Incubation temperature	Incubation time
Staphylococcus aureus	ATCC 6538P	30-35°C	3 days

To pass test growth obtained must not differ from more than a factor of 2 (two) from growth of the medium from a previously tested and approved medium.

Additional Quality Control

Test	Specification
pH at 25 °C	7,2 ± 0,2 in 20-25°C
Appearance	Light straw coloured gel
Negative Control	No growth after 3-5 days

Packaging and Storage

Type of container	Storage	Sustainable in unopened containers
9cm plates (10x10)	Dark and in room-temp.	6 months
14cm plates (6x6)	Dark and in room-temp.	6 months