Baird Parker Agar + RPF (RT)

Selective medium for the isolation *Staphylococcus aureus* according to ISO 6888-2.

TYPICAL FORMULA	(g/l)
Pancreatic Digest of Casein	10.0
Meat Extract	5.0
Yeast Extract	1.0
L-Glycine	12.0
Sodium Pyruvate	10.0
Lithium Chloride	5.0
Agar	17.0
Bovine Fibrinogen	5.0
Rabbit Plasma - EDTA	25 ml
Trypsin Inhibitor	0.025
Potassium Tellurite	0.025
Final pH 7.2 ± 0.2	

DESCRIPTION

Baird Parker Agar + RPF is a selective medium used for isolating coagulase-positive staphylococci in foods and other materials, as recommended in ISO 6888-2.

PRINCIPLE

Pancreatic digest of casein and meat extract provide amino acids, carbon, nitrogen, vitamins and minerals. Yeast extract is a source of vitamins, particularly of B-group. Sodium pyruvate stimulates the growth of *S. aureus* without destroying the selectivity. Glycine and lithium chloride have inhibitory action for organisms other than *S. aureus*. Bovine fibrinogen, rabbit plasma and trypsin inhibitor are the substrates which enable the detection of coagulase activity: the presence of rabbit plasma together with bovine fibrinogen leads to appearance of fibrin halo around the colonies, while potassium tellurite, besides its selective action, determines grey or black coloration of colonies; the trypsin inhibitor avoids total or partial fibrinolysis of halos formed around coagulase-positive colonies.

TECHNIQUE

Prepare the sample suspension and further decimal dilutions in Maximum Recovery Diluent (ref. 20071). Transfer, by means of a sterile pipette, 0.1 ml of the test sample if liquid or of the initial suspension in the case of other products, to a plate of Baird Parker Agar + RPF. Repeat the procedure for further decimal dilutions. Spread the inoculum onto the surface of the agar plate and allow to dry. Invert the plates and incubate at 37 ± 1°C for 24-48 hours.

INTERPRETATION OF RESULTS

Typical colonies of *S. aureus* are black or grey, shining and convex, surrounded by a zone of clearing of the medium. After 24 hours incubation an opalescent ring immediately in contact with the colonies may appear in this clear zone.

STORAGE

10-25°C away from light, until the expiry date on the label. Eliminate if signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. EN ISO 11133:2014. Microbiology of food, animal feed and water − Preparation, production, storage and performance testing of culture media.
2. ISO 6888-2:1999. Microbiology of food and animal feeding stuffs − Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) − Part 2: Technique using rabbit plasma fibrinogen agar medium.
3. Beckers H.J., et al. (1984) Evaluation of a pour-plate system with a rabbit plasma-bovine fibrinogen agar for the enumeration of Staphylococcus aureus in food.- Can J Microbiol. 30:470-474.
4. Baird Parker A.C. (1962) An improved diagnostic and selective medium for isolating coagulase-positive staphylococci. J. Appl. Bact. 25:12-19.

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PRODUCT SPECIFICATIONS

NAME
Baird Parker Agar + RPF

PRESENTATION
Ready to use plates (90 mm) containing 22 ± 1 ml of medium

STORAGE
10-25°C

PACKAGING

Ref.	Content	Packaging
10999	20 plates	• 10 plates in thermally soldered film • 2 x 10 plates in cardboard box

pH OF THE MEDIUM
7.2 ± 0.2

USE
Baird Parker Agar + RPF is a selective medium for the isolation of coagulase-positive staphylococci in foods and other materials, according to ISO 6888-2

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Light amber, slightly opalescent

SHELFLIFE
75 days

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Sterility control
   7 days at 22 ± 2°C, in aerobiosis
   7 days at 35 ± 2°C, in aerobiosis
3. Microbiological control
   Inoculum for productivity: 50-100 CFU
   Inoculum for selectivity: 10^4-10^6 CFU
   Inoculum for specificity: 10^3-10^4 CFU
   Incubation Conditions: 24-48 hours at 37 ± 1°C, in aerobiosis

Microorganism		Growth	Colony colour	Opacity halo
Staphylococcus aureus	WDCM 00034	Good	Black - grey	Yes
Escherichia coli	WDCM 00013	Inhibited	---	---
Staphylococcus saprophyticus	WDCM 00159	Good	Black - grey	No
Staphylococcus epidermidis	WDCM 00036	Good	Black - grey	No

TABLE OF SYMBOLS

LOT Batch code	Do not reuse	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult instructions for use	

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