

PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD011 - BRUCELLA AGAR + DEF. SHEEP BLOOD

Intended Use:

Brucella Agar with Defibrinated Sheep Blood (often called Brucella Blood Agar) is an enriched, non-selective medium widely used for the isolation, cultivation, and partial identification of fastidious and obligate anaerobic bacteria, including *Brucella* spp., *Campylobacter* spp., and a range of other clinically significant organisms. Brucella Agar supplemented with defibrinated sheep blood is widely used for the isolation, cultivation, and partial identification of anaerobic bacteria, including both *Bacteroides* and *Clostridium* species.

Principle and Uses:

Brucella Agar with Defibrinated Sheep Blood is specifically recommended for use as a primary plating medium for clinical samples suspected to contain anaerobes. The medium supports the growth of fastidious anaerobic bacteria, including *Bacteroides* and *Clostridium* species, and allows for the observation of colony morphology, hemolysis, and pigment production, which are useful for partial identification.

Nutrient-rich base supports the growth of highly fastidious organisms, including *Brucella*, *Campylobacter*, *Streptococcus*, *Neisseria*, *Listeria*, and *Haemophilus* species.

Sheep blood (5%) provides additional growth factors (e.g., hemin, NAD) and enables the observation of hemolytic reactions, which can aid in the identification of certain bacteria.

Reducing agents (like sodium bisulfite) help maintain an anaerobic environment, supporting obligate anaerobes.

Applications

- Isolation and cultivation of *Brucella* spp. from clinical or food samples.
- Growth and differentiation of other fastidious and anaerobic bacteria.
- Observation of hemolytic reactions for partial identification

Composition

Enzymatic Digest of Casein - 10.0 g/L

Enzymatic Digest of Animal Tissue - 10.0 g/L

Yeast Extract - 2.0 g/L

Sodium Chloride - 5.0 g/L

Dextrose - 1.0 g/L

Sodium Bisulfite - 0.1 g/L

Agar - 15.0 g/L

Storage: 2-8°C

Appearance: Opaque, red to dark red

pH Range: 6.8 - 7.2

Package contents: 10 plates in a package
Exp. Date: Printed on label and on the item.
Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

Performance Testing Results:
GPT: inoculum 10-100 cfu

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond.	Reaction 1
<i>Bacteroides fragilis</i>	23745	33-37 °C	Anaerobic, 48 hours	Growth
<i>Clostridium perfringens</i>	13124	33-37 °C	Anaerobic, 48 hours	Growth