

# PRODUCT INFORMATION

**Product Type:** PETRI DISHES 90mm

**Cat No. PD049 - TRYPTIC SOY AGAR + DEF. SHEEP BLOOD**

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## **Intended Use:**

Isolation, detection and cultivation of wide variety of microorganisms. Used with blood for improved beta-hemolytic reactions and for cultivation of fastidious microorganisms.

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## **Principle and Uses:**

Tryptic Soy Blood Agar Base No. 2 (often abbreviated as TSBA or TSA II) with sheep blood is a microbiological medium used for the cultivation, isolation, and identification of a wide range of microorganisms, particularly bacteria. The addition of sheep blood to the Tryptic Soy Agar Base enhances the medium by providing additional nutrients and allowing for the observation of hemolytic reactions.

Hemolysis Patterns:

**Beta-hemolysis:** Complete hemolysis, resulting in a clear zone around bacterial colonies.

**Alpha-hemolysis:** Incomplete hemolysis, leading to a greenish discoloration around colonies.

**Gamma-hemolysis:** No hemolysis, with no change in the appearance of the agar around colonies.

**Certifications / Compliance:** AOAC, BAM, CCAM, COMPF, EP, EPA, ISO, JP, SMD, SMWW, USDA, USP

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## **Composition**

Tryptone H - 15 g/L

Soytone - 5 g/L

Sodium Chloride - 5 g/L

Agar - 15 g/L

Donor sheep blood – 50ml/L

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**Storage:** 2-8°C

**Final pH:** 7.1 - 7.5 at 25°C

**Appearance:** Cherry red, opaque

**Package contents:** 10 plates in a package

**Exp. Date:** Printed on label and on the item.

**Required materials not supplied:** Laboratory equipment as required.

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**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.

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#### Waste Disposal

After interpretation all plates should be destroyed by standard incineration methods.

#### Performance Testing Results

**GPT:** Inoculum 10-100 cfu

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond.	Reaction 1
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 24 hours	Beta hemolytic reaction
<i>Streptococcus pyogenes group A</i>	19615	33-37 °C	Aerobic, 24 hours	Beta hemolytic reaction
<i>Streptococcus pneumoniae</i>	49619	33-37 °C	Aerobic, 24 hours	Alpha hemolytic reaction
<i>Staphylococcus aureus</i>	6538	33-37 °C	Aerobic, 24 hours	Beta hemolytic reaction
<i>Staphylococcus aureus</i>	W.S	33-37 °C	Aerobic, 24 hours	Beta hemolytic reaction
<i>Streptococcus agalactiae</i>	27956	33-37 °C	Aerobic, 24 hours	Beta hemolytic reaction