



Product Information

S.P.S. AGAR (SULPHITE- POLYMYXIN- SULPHADIAZINE)

Product Number **S6556**

Product Description

S.P.S. Agar is used for the detection of *Clostridium perfringens* in foods. Casein enzymic hydrolysate and yeast extract provide nitrogenous compounds and Vitamin B complex. Most *Clostridia* reduce sulphite to sulphide which reacts with ferric citrate forming ferrous sulphide, which is indicated by black colonies. Other sulphite reducing gram-positive and gram-negative organisms are suppressed by Polymyxin B and Sulphadiazine.

Components

Item	g/L
Casein Enzymic Hydrolysate	15.00
Yeast Extract	10.00
Sodium Sulphite	0.50
Polymyxin B Sulphate	0.01
Sulphadiazine	0.12
Ferric Citrate	0.50
Agar	13.90

Final pH (at 25°C) 7.0 ± 0.2

Precautions and Disclaimer

For laboratory use only. Not for drug, household or other uses.

Preparation Instructions

Suspend 40 grams of S.P.S. Agar in 1000 mls of distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes.

Storage

Store the dehydrated medium and prepared medium at 2-8°C.

Product Profile

Appearance	Yellow colored, homogeneous, free flowing powder.
Gelling	Firm.
Color and Clarity	Medium amber colored, slightly opalescent gel forms in petri plates.
Cultural Response	Cultural characteristics are observed after 18-48 hours at 37°C when incubated anaerobically.

Organisms

Organisms	Growth	Colony Color
<i>Clostridium perfringens</i>	good-luxuriant	black
<i>Clostridium sporogens</i>	poor to good	black
<i>Staphylococcus aureus</i>	none to poor	white
<i>Escherichia coli</i>	inhibited	-

References

1. Compendium of Methods for the Microbiological Examination of Foods, (1984). Speck, M. ed. 2nd Edition. APHA. Washington, D.C.

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