

## S4306 Spirit Blue Agar

Spirit Blue Agar is used for the detection and enumeration of lipolytic microorganisms.

### Composition:

Ingredients	Grams/Litre
Casein Enzymic Hydrolysate	10.0
Yeast Extract	5.0
Spirit Blue	0.15
Agar	17.0
Final pH 6.8 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Greenish yellow colored, homogeneous, free flowing powder.

Gelling: Firm

Color and Clarity: Basal medium yields a blue colored, clear to slightly opalescent gel. With the addition of the lipase substrate, a lavender colored slightly opalescent gel forms in petri plates.

### Directions:

Suspend 32.15 g of Spirit Blue Agar in 1000 ml of distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. Cool to 50°C and add slowly 30 ml of the lipase substrate while agitating to obtain an even distribution.

Note: To prepare the lipase substrate mix 1 ml of Tween<sup>®</sup> 80 (Cat. No 93780) in 400 ml warm distilled water. Add 100 ml of cotton seed oil (Cat. No 11905), cream or olive oil (Cat. No 75357). Agitate vigorously to emulsify.

### Principle and Interpretation:

It is a basal medium to which a lipase substrate is added for the detection, enumeration and study of lipolytic microorganisms. Starr modified the formulation with an inert and ideal dye as indicator of lipolysis.

Cultural characteristics after 48-72 hours at 35-37°C.

Organisms (ATCC)	Growth	Lipase Activity
<i>Proteus mirabilis</i> (25933)	+++	-
<i>Staphylococcus aureus</i> (25823)	+++	+
<i>Staphylococcus epidermidis</i> (12228)	+++	+

### References:

1. American Type Culture Collection, Manassas, Va., U.S.A.
2. Starr, Science, 93, 333 (1941)

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### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

