



TSAF AGAR (6905) **(Tryptone Soy Fast Green Agar)**

Intended Use

TSAF Agar (Tryptone Soy Fast Green Agar) is used in determining total bacterial counts with the ISO-GRID® and/or NEO-GRID™ Membrane Filtration System.

Product Summary and Explanation

Tryptone Soy Fast Green Agar is based on Tryptone Soy Agar. The original formula was modified by adding Fast Green FCF dye to enhance visibility of the colonies. TSAF Agar is recommended for the enumeration of total bacteria from all foods using the ISO-GRID and/or NEO-GRID Membrane Filtration Method.^{1,2}

Principles of the Procedure

Enzymatic Digest of Casein and Enzymatic Digest of Soybean Meal are the nitrogen and vitamin sources in TSAF Agar. Sodium Chloride maintains the osmotic environment. Fast Green FCF stains all colonies green or blue-green, enhancing visibility. Agar is the solidifying agent.

Formula / Liter

Enzymatic Digest of Casein	15 g
Enzymatic Digest of Soybean Meal	5 g
Sodium Chloride	5 g
Fast Green (FCF)	0.25 g
Agar	15 g

Final pH: 7.3 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precautions

1. For Laboratory Use.
2. Harmful. Possible carcinogen. May cause irritation to eyes, skin and respiratory tract.

Directions

1. Suspend 40.3 g of medium in one liter of purified water.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave at 121°C for 15 minutes.
4. Cool to 45 - 50°C.
5. Check pH and adjust, if necessary to obtain a final pH of 7.3 ± 0.2 in the solidified medium.
6. Dispense 18 - 20 mL volumes to sterile Petri dishes, cool until plates are solidified.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free flowing, and green to blue-green-beige.

Prepared Appearance: Prepared medium is clear to slightly hazy and blue-green to green.

Expected Cultural Response: Cultural response on TSAF incubated at 35°C for 48 ± 2 hours using the ISO-GRID and/or NEO-GRID Membrane Filtration System.

Microorganism	Approx. Inoculum (CFU)	Expected Results	
		Growth	Reaction
<i>Escherichia coli</i> ATCC® 25922	10 - 300	Good to excellent	Green colonies
<i>Staphylococcus aureus</i> ATCC® 25923	10 - 300	Good to excellent	Green colonies

