PRODUCT INFORMATION

Staphylococcus Agar #110
Cat. No. S19-114

YOUR MEDIA IS OUR CULTURE

ALPHA BIOSCIENCES

Date of Issue:
10/05/20

DESCRIPTION

Staphylococcus Agar #110 is a selective medium used for the identification and isolation of pathogenic Staphylococci. The high salt concentration contributes to the selective isolation of pathogenic Staphylococci. Pathogenic strains of staphylococci usually produce yellow to orange-pigmented colonies on this media. Orange-pigmented colonies are picked and inoculated into brain heart infusion or tryptose phosphate broth for the coagulase test. Mannitol fermentation is determined by a color change of bromcresol purple after placing a drop of the dye onto areas of the agar surface from which the colonies have been removed. Gelatin hydrolysis is determined by flooding the plate with 5 mL of a saturated aqueous solution of ammonium sulfate and incubating plate at 35.0°C for 10 minutes. A clear zone around the colonies indicates gelatin hydrolysis.

Formula* per Liter:

Casein Digest Peptone	10.0g
Yeast Extract	2.5g
D-Mannitol	10.0g
Dipotassium Phosphate	5.0g
Gelatin	30.0g
Lactose	2.0g
Sodium Chloride	75.0g
Agar	15.0g

Final pH: 7.0 ± 0.2 at 25°C

* *Grams per liter may be adjusted or formula supplemented to obtain desired performance.*

PREPARATION

Mix 149 grams of the medium in a Liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121.0°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige.
2. Visually the prepared medium is yellow beige with a heavy precipitate.
3. Expected cultural response after 24-48 hours at 35.0°C.

Organism:	**Result: Growth/Pigment/Mannitol/Gelatin**
Escherichia coli ATCC 25922	Inhibited
Staphylococcus aureus ATCC 25923	Growth/+/+/+
Staphylococcus epidermidis ATCC 12228	Growth/-/-/+

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30.0°C. Once opened and recapped, place the container in a low humidity environment at the same storage

temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original light beige color.