

PRODUCT INFORMATION

Tryptose Phosphate Broth

Cat. No. T20-113

DESCRIPTION

Tryptose Phosphate Broth is recommended for the cultivation of fastidious microorganisms. It is a buffered broth which can support the growth of fastidious pathogenic microorganisms. Peptones provide nitrogen, vitamins, minerals and essential amino acids for transport and osmotic balance. Disodium phosphate provides the buffering capacity.

The addition of 0.1 – 0.2% agar concentration can aid in the recovery of anaerobes as it delays the dispersion of CO₂ and diffusion of O₂.

FORMULA (g/L)

Enzymatic Digest of Casein	10.0 g	Yeast Extract	5.0 g
Soy Peptone	5.0 g	Dextrose	2.0 g
Sodium Chloride	5.0 g	Disodium Phosphate	2.5 g

Final pH: 7.3 ± 0.2 at 25 °C

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

PREPARATION

Mix 29.5 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and light beige.
2. Visually the prepared medium is clear and light to medium amber with none to light precipitate.
3. Expected cultural response after 18-24 hours at 35 °C.



ORGANISM	RESULT
<i>Neisseria meningitidis</i> ATCC 13090	Good Growth
<i>Staphylococcus epidermis</i> ATCC 12228	Good Growth
<i>Streptococcus pneumoniae</i> ATCC 6305	Good Growth
<i>Streptococcus pyogenes</i> ATCC 19615	Good Growth

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°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 color.