
Product Specification

Product Name: 2xYT Agar (Ready to use)

Product Code: RTU003A

PRODUCT DESCRIPTION:

A nutrient-rich liquid medium optimized for the non-selective growth of Escherichia coli and efficient bacteriophage propagation. Compared to standard media such as LB agar and nutrient agar, 2xYT agar contains twice the concentration of tryptone and yeast extract, providing additional amino acids, vitamins, and growth factors. This high-nutrient formulation promotes rapid, high-density bacterial cultures, ensuring actively dividing host cells that support robust phage replication. An easy to pour and store agar medium designed for rapid preparation. Ideal for laboratories requiring fast and efficient media preparation.

Use:

To prepare the medium, start by slightly loosening the cap to vent pressure, ensuring it is never tightly closed during heating. Microwave the bottle on high for approximately three minutes until fully melted, or alternatively, submerge it in a boiling water bath for 20–30 minutes. If using a microwave, you may need to break the agar into pieces or extend heating by 30–60 seconds to achieve a complete melt, though you must be careful not to overheat and degrade the nutrients. Once melted, tighten the cap and allow the liquid to cool to approximately 50°C. Finally, working in a sterile environment to prevent contamination, pour the entire contents into Petri dishes and allow them to solidify before use. Note that this medium is **for single-use only** and **should not be re-melted or used if any signs of microbial growth are visible**.

Components:

Tryptone – 16.0g/L

Sodium chloride – 5.0g/L

Yeast Extract – 10.0g/L

Agar – 15.0g/L

Item	Description
<u>Physical and Chemical Tests</u>	
Appearance:	Yellowish Solid
pH (@25°C):	6.8 – 7.2

Storage: Stable at Room Temperature for up to 12 Months.