

## 2x YT Agar, Powder

Cat. No. 48504

### Product description:

#### General

2x YT Agar is a nutritionally rich growth medium de-signed for growth of recombinant strains of *E. coli* on agar plates. This medium is also used for propagation of M13 bacteriophage for sequencing and phage display. The medium contains nitrogen and growth factors which enable bacteriophage production in large quantities without exhausting the host. *E. coli* grows more rapidly in this rich medium, because it provides amino acids, nucleotide precursors, vitamins and other metabolites

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Composition	Component	Concentration
	Tryptone	16 g/l
	Yeast extract	10 g/l
	NaCl	5 g/l
	Agar	15 g/l

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**Storage** Recommended storage temperature of powder is +15 °C – +30 °C. Keep container tightly closed, because powder is very hygroscopic.

### Solution procedure:

To prepare 1 l medium:

1. Fill 900 ml water dest. in an 1-liter flask. Suspend 46 g powder medium while stirring.
2. Adjust to pH 7 with ca. 0.2 ml 5 N NaOH with stirring, fill up to a final volume of 1 liter.
3. Then autoclave medium for 15 min. at 121 °C.

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<sup>1</sup> Sambrook, J., et al., Molecular Cloning: A Laboratory Manual , 2<sup>nd</sup> ed., p. A.3, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY