

Wort Broth, Base

For the cultivation, isolation and enumeration or enrichment of fungi, especially of yeasts.

General Information

According to RAPP (1974), addition of certain indicator dyes to Wort Agar allows differentiation between yeast and bacterial colonies.

Mode of Action

The accompanying bacterial flora is weakly suppressed by the pH value of 5.0 and largely by a pH of 3.5.

Typical Composition (g/litre)

Malt extract 15.0; universal peptone 0.75; maltose 12.75; dextrin 2.75; potassium dihydrogen phosphate 0.75; ammonium chloride 1.0.

Also to be added:

glycerol 2.5 ml.

Preparation

Suspend 33 g/litre together with 2.5 ml glycerol/litre, if desired dispense into suitable containers, autoclave (15 min at 121 °C).

pH: 5.0 ± 0.2 at 25 °C.

The prepared broth is clear and yellowish-brown.

Experimental Procedure and Evaluation

Inoculate Wort Broth. Further steps depend on the purpose for which the medium is used.

Incubation: up to 7 days at 28 °C aerobically.

Literature

RAPP, M.: Indikatorzusätze zur Keimdifferentenzierung auf Würze- und Malzextrakt-Agar. – Milchwiss., 29; 341-344 (1974).

Ordering Information

Product	Ordering No.	Pack size
Wort Broth, Base	1.05449.0500	500 g
Glycerol (about 87 %)	1.04094.0500	500 ml

Quality control

Test strains	Growth
Candida albicans ATCC 10231	good / very good
Saccharomyces cerevisiae ATCC 9763	good / very good
Saccharomyces cerevisiae ATCC 9080	good / very good
Geotrichum candidum DSMZ 1240	good / very good
Rhodotorula mucilaginosa DSMZ 70403	good / very good
Penicillium commune ATCC 10428	good / very good
Aspergillus niger ATCC 16404	good / very good
Trichophyton ajelloi ATCC 28454	good / very good