

# Wort Agar

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; glycerol 2.35; potassium dihydrogen phosphate 0.4; ammonium chloride 1.0; agar-agar 20.0.

## Preparation

Suspend 55 g/litre by heating briefly, dispense into suitable vessels, autoclave (15 min at 121 °C).

■ **Do not overheat. If possible do not reliquefy.**

pH: 5.0 ± 0.2 at 25 °C.

The prepared medium is clear and brownish.

pH: 3.5: Cool to about 50 °C, add approximately 12 ml of filter-sterilized 10 % lactic acid/litre, mix.

■ **Do not reheat.**

## Experimental Procedure and Evaluation

Inoculate Wort Agar by the pour-plate method or by spreading the sample onto the surface of the medium. 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 Keimdifferentierung auf Würze- und Malzextrakt-Agar. – Milchwiss., 29; 341-344 (1974).

## Ordering Information

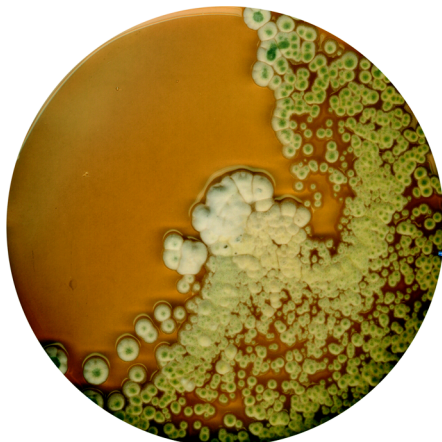
Product	Ordering No.	Pack size
Wort Agar	1.05448.0500	500 g
Wort Agar	1.05448.5000	5 kg
Lactic acid about 90 % purified	1.00366.0500	500 ml

## Quality control

Test strains	Growth
<i>Geotrichum candidum</i> DSMZ 1240	good / very good
<i>Penicillium commune</i> ATCC 10428.	good / very good
<i>Aspergillus niger</i> ATCC 16404	good / very good
<i>Trichophyton ajelloi</i> ATCC 28454	fair / good

## Quality control (spiral plating method)

Test strains	Inoculum (cfu/ml)	Recovery rate %
<i>Candida albicans</i> ATCC 10231	10 <sup>3</sup> -10 <sup>5</sup>	≥ 70
<i>Saccharomyces cerevisiae</i> ATCC 9763	10 <sup>3</sup> -10 <sup>5</sup>	≥ 70
<i>Saccharomyces cerevisiae</i> ATCC 9080	10 <sup>3</sup> -10 <sup>5</sup>	≥ 70
<i>Rhodotorula mucilaginosa</i> DSMZ 70403	10 <sup>3</sup> -10 <sup>5</sup>	≥ 70



*Penicillium commune* ATCC 10428



*Rhodotorula mucilaginosa* DSMZ 7043