

38954 Malt Extract Agar modified, Vegitone (Vegitone Malt Extract Agar modified)

This medium is recommended for isolation, detection and enumeration of yeasts and moulds. The animal derived peptone of the original formulation is replaced by a plant peptone.

Composition:

Ingredients	Grams/Litre
Peptone (vegetable)	0.78
Maltose	12.75
Dextrin	2.75
Agar	15.0
Final pH 4.7 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C.

Appearance: Yellow coloured, homogeneous, free flowing powder.
 Gelling: Firm, comparable with 1.5% Agar gel.
 Colour and Clarity: Yellow coloured, very slightly opalescent gel forms in petri plates.

Directions:

Suspend 31.28 g in 1000 ml distilled water. Add 2.35 g glycerol (Cat. No. 49767). Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. AVOID OVERHEATING.

Principle and Interpretation:

Malt Extract medium is recommended for the isolation, detection and enumeration of yeasts and moulds.

Reddish (1) described a medium prepared from malt extract which was an acceptable substitute for the Wort Agar. Following the formula of Reddish, Thom and Church (2) used Malt extract as a base from which they prepared the complete media.

Peptone (vegetable) provide essential growth nutrients for the growth of fungi. Maltose and dextrin are the suitable carbohydrates for the growth of fungi. The low pH inhibits bacterial growth (3).

Cultural characteristics after 40-48 hours at 25-30°C

Organisms (ATCC)	Growth
<i>Aspergillus niger</i> (16404)	+++
<i>Candida albicans</i> (10231)	+++
<i>Saccharomyces cerevisiae</i> (9763)	+++
<i>Shigella sonnei</i> (25931)	+++

References:

1. Reddish, Abst. Bact., 3, 6 (1919)
2. Thom and Church, The Aspergilli (1926)
3. Lennett, Balows, Hausler and Shadomy (Eds.), Manual of Clinical Microbiology, 4th ed., ASM, Washington, D.C. (1985)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

