

ATCC medium: 1589 Modified chopped meat medium (ATCC medium 1490) with 1% glucose

ATCC Medium 1490 (see below) with 1% glucose

ATCC Medium 1490:

Ground beef (fat-free).....500.0 g
Distilled water.....1.0 L
N NaOH.....25.0 ml

Mix meat, water and NaOH and bring to a boil with stirring. Cool to room temperature, skim fat from surface, and filter, retaining both meat particles and filtrate. To filtrate, add sufficient distilled water to restore volume to 1.0 L.

To this filtrate, add:

Trypticase Peptone (BD 211921)....30.0 g
Yeast extract.....5.0 g
K₂HPO₄5.0 g
0.025% Resazurin.....4.0 ml
Agar (if necessary).....20.0 g

Boil and cool medium under 80% N₂, 10% H₂, 10% CO₂, and add:

L-Cysteine . HCl.....0.5 g
Hemin Solution (see below).....10.0 ml
Vitamin K1 Solution (see below)....0.2 ml

Adjust medium for final pH 7.0. Anaerobically dispense 7 ml into tubes containing meat particles (1 part meat to 5 parts fluid) under the same gas phase.

Vitamin K1 Solution:

Vitamin K1.....0.15 ml
95% Ethanol.....30.0 ml

Store solution in brown bottle under refrigeration. Discard after one month.

Hemin Solution:

Hemin.....50.0 mg
N NaOH.....1.0 ml
Distilled water to.....100.0 ml

Autoclave at 121C for 15 minutes.

