

ATCC medium: 2454 Actinophrys medium

Medium 2454 is a 10% solution of ATCC Medium 1405.

ATCC Medium 1405 (see below).....100.0 ml
Distilled water.....900.0 ml

Aseptically add 100 ml of ATCC Medium 1405 to 900 ml of sterile distilled water.

ATCC Medium 1405:

Natural seawater.....1.0 L
Enrichment Solution (see below)...10.0 ml
Vitamin Solution (see below).....1.0 ml

Filter-sterilize 2-month-old seawater. Aseptically combine above components.

Enrichment Solution:

EDTA . 2H₂O0.553 g
NaNO₃4.667 g
Na₂SiO₃ . 9H₂O.....3.0 g
Sodium glycerophosphate.....0.667 g
H₃BO₃0.380 g
Fe(NH₄)₂(SO₄)₂ . 6H₂O0.234 g
FeCl₃ . 6H₂O0.016 g
MnSO₄ . 4H₂O0.054 g
ZnSO₄ . 7H₂O7.3 mg
CoSO₄ . 7H₂O1.6 mg
Distilled water.....1.0 L

Neutralize Na₂SiO₃ with 1 N HCl. Combine ingredients in order listed. Filter-sterilize.

Vitamin Solution:

Thiamine.....0.1 g
Vitamin B12.....2.0 mg
Biotin.....1.0 mg
Distilled water.....1.0 L

Filter-sterilize.