

Fastidious Anaerobe Agar + Neomycin 75

BC2091

This is a modification of the traditional Fastidious Anaerobe Agar which includes Neomycin at a level to give a final concentration of 75 mg/litre. Neomycin FAA is recommended for the isolation of general clinically significant anaerobes. Classical colony formation, odour and fluorescence under UV are diagnostic features on this medium. The choice of peptones and growth factors provide early growth of most organisms whilst the starch has an important role as a de-toxification agent.

Formula grams per litre

Peptones mix	23.0
Sodium chloride	5.0
Starch	1.0
Glucose	1.0
Sodium pyruvate	1.0
Arginine	1.0
Sodium succinate	0.5
Sodium bicarbonate	0.4
L-cysteine HCl	0.4
Ferric pyrophosphate	0.3
Haemin	0.005
Vitamin K	0.004
Neomycin	0.075
Bacteriological Agar	12.0

pH 7.3 +/- 0.2

Preparation

Suspend 45.7 grams of powder in 1 litre of deionised water.

Autoclave at 121°C for 15 minutes. Cool to 48°C and add 5-7% of sterile defibrinated horse or sheep blood. Mix well by swirling and pour into 90mm petri dishes. (Optional – The medium may be made selective by addition of antibiotic supplements.)

Appearance: Dependant upon the oxygenation level of the added blood. Should not show signs of haemolysis.

Storage of Prepared Medium

Plates should be stored at 4-8°C in the dark. Plates should be used within 1 week.

Quality Control Organisms - Suggestions

<i>Bacteroides fragilis</i>	ATCC 25285	
<i>P. anaerobius</i>	NCTC 12981	β haemolysis
<i>C perfringens</i>	ATCC 13124	'target' haemolysis

References:

Wren M.W.D., 1980 J Clin Path 33:61-65. Multiple selective media for the isolation of anaerobic bacteria.
George W.I., Sutter V.V. L., Citron D, Finegold S. M, 1976. Selective and differential medium for *Clostridium difficile*