



Technical Data

Mycoprep (for 2 tests)

FD173

A combination mixture for decontamination and liquefaction of sputum specimen. N-Acetyl L-cysteine (NALC) is a mucolytic agent that can rapidly digest sputum when used at a concentration of 0.5 to 2.0%. Decontamination is achieved by the addition of sodium hydroxide, while sodium citrate gives stabilizing effect on the NALC by chelating heavy metal ions present in the specimen and which may inactivate the NALC. The phosphate buffer minimizes the continuing action of NaOH and also allows the efficient sedimentation of mycobacteria by centrifugation, by lowering the specific gravity of the specimen.

Composition

Ingredients	Concentration
Per kit sufficient for 2 tests	
Kit contents (5 bottles of following)	
R032: Sodium citrate - hydroxide buffer	20ml
R033 : Phosphate buffer	100ml
R034 : NALC (N-acetyl-L-cysteine)	0.100g
Formula:	
R032 : (per vial, 20ml)	
Trisodium citrate	0.290g
Sodium hydroxide	0.400g
Distilled water	20ml
R034 : (per vial 0.1gm)	
N-Acetyl-L-cysteine	0.100g
R033 : (per vial, 100 ml)	
Disodium hydrogen phosphate	0.470g
Potassium dihydrogen phosphate	0.470g
Distilled water	100ml

Directions:

Aseptically mix 0.1 gm of N-Acetyl-L-cysteine (R034) in 20 ml of Sodium citrate-hydroxide buffer (R032). Use immediately and within 24 hours only. Transfer a maximum volume of 10 ml of specimen to a sterile graduated 50 ml plastic centrifuge tube having a leak proof cap. Add an equal volume of the above solution. Mix the contents thoroughly by inverting with the cap tightened. Mix on vortex mixer for approximately 20s until the contents are liquefied. Allow the mixture to stand for 15 minutes at 20 to 25°C with occasional gentle shaking by hand. Do not overprocess as this will reduced the recovery of mycobacteria. Add phosphate buffer (R033) up to the 50 ml mark on the tube. Recap the tube and swirl it by hand to mix the contents well. Centrifuge the solution for at least 15 minutes at ≥ 3000 xg. Preferably use a refrigerated centrifuge. Carefully decant the supernatant fluid into a splash-proof discard container containing suitable disinfectant.

Add to the sediment, 1 to 2 ml of phosphate buffer pH 6.8 with a sterile pipette and resuspend the sediment with the pipette or by gently shaking the tube. Inoculate onto solid culture media (M162-L J Medium Base, M199-Middlebrook 7H10 Agar etc.) or use for preparing a smear for staining.

Remarks : Good laboratory practices and hazard precaution must be observed.

Type of specimen

Clinical- sputum

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (1,2). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning & Precautions

In Vitro diagnostic use only. For professional use only. Read the label before opening the container. Wear protective gloves/ protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Storage and Shelf Life

Store at 2 - 8°C. Use before expiry date on the label.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (1,2).

Reference

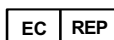
1. Isenberg (Ed.),2004, Clinical Microbiology Procedures Handbook, Vol.3, American Society for Microbiology, Washington. D.C.
2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology,11th Edition. Vol. 1.

*** Not For Medicinal Use**

Revision : 02/2023



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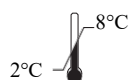
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