

**A.L.L. COLLECTION KIT
A.L.L. SOLUTION
DIGESTION REAGENT
PHOSPHATE BUFFER 0,067 M pH 6,8
A.L.L. DIGESTION NEUTRALISATION KIT**

INTENDED USE

Complete system for the collection, transport and treatment of the clinical specimens to be examined for Mycobacteria.

PRINCIPLE

The proposed system is prepared considering the recommendation of "Centers for Disease Control and Prevention" (Atlanta, U.S.A.)

The proposed system may be used during the procedures for the detection of Mycobacteria with cultural techniques and with PCR techniques.

A.L.L. Solution acts as anticoagulant-liquefying-lysing agent; Digestion Reagent is an alkaline solution for the digestion of the specimen contents; Phosphate Buffer is a solution for the neutralisation of digested specimen; A.L.L. Digestion Neutralisation Kit proposes all the above reagents as kit format.

PERFORMANCES

A.L.L. System has been tested for the detection of Mycobacteria and it has been proved suitable for the specimens preparation and treatment (1).

**ALL COLLECTION KIT
(REF 225001N)**

25 centrifuge tubes suitable for the collection, transport and treatment of the following specimens: articular, ascitic, pericardic fluids, bronchial aspirate, CSF, gastric juice aspirate, bone marrow aspirate, and other biological materials.

Store at 2-8°C.

TUBE CONTENTS (1 mL)

Aqueous solution of N-acetyl-L-cysteine, EDTA sodium salt, saponin, sodium hydroxide, polypropilenglycol. The solution acts on the specimen as an anticoagulant-liquefying-lysing agent.

**ALL SOLUTION
(REF 225020)**

1 flask containing 50 ml of A.L.L. Solution suitable for the collection, transport and treatment of the following specimens: articular, ascitic, pericardic fluids, bronchial aspirate, urines, CSF, gastric juice aspirate, bone marrow aspirate, and other biological materials.

Store at 2-8°C.

FLASK CONTENTS

Aqueous solution of N-acetyl-L-cysteine, EDTA sodium salt, saponin, sodium hydroxide, polypropilenglicol. The solution acts on the specimen as an anticoagulant-liquefying-lysing agent.

**DIGESTION REAGENT
(REF 2203454)**

1 flask containing 500 ml of NaOH-sodium citrate solution for the alkaline digestion of the specimens
Store at 2-8°C.

FLASK CONTENTS

NaOH 15 g, sodium citrate 14, 7 distilled water 500 ml

**PHOSPHATE BUFFER 0,067 M pH 6,8
(REF 225040)**

1 flask containing 500 ml of sterile 0.067M Phosphate Buffer, pH 6.8 for the neutralisation of the digested specimens

Store at 2-8°C.

FLASK CONTENTS

Potassium phosphate monobasic 2,2 g, potassium phosphate bibasic 2,7 g, distilled water 500 ml; pH 6,8.
Store at 2-8°C.

**A.L.L. DIGESTION NEUTRALISATION KIT
(REF 225000)****KIT CONTENTS**

1 - ALL Solution: 50 ml

Aqueous solution of N-acetyl-L-cysteine, EDTA sodium salt, saponin, sodium hydroxide, polypropilenglicol.

2 - Digestion Reagent : 200 ml

NaOH 6 g, sodium citrate 5.88 distilled water 200 ml

3 - 0.067M Phosphate Buffer pH 6.8: 2 x 500 ml

Potassium phosphate monobasic 2,2 g, potassium phosphate bibasic 2,7 g, distilled water 500 ml

Store at 2-8°C.

SUMMARY OF THE TECHNIQUE**1- Specimen collection**

Collect the specimen in a centrifuge tube with a volume of 50 ml

2 -Fluidification and digestion

Add to the centrifuge tube 2,5 ml of A.L.L. Solution

Adjust the volume to 10 ml by adding about 7.5 ml of sterile distilled water

Add about 10 ml of Digestion Reagent

Stir by vortex, incubate at 37°C for 5 min and agitate on a rolling plane for 10 minutes

3 - Neutralisation

Add to the tube about 30 ml of Phosphate Buffer and stir by vortex

4 - Sedimentation

Centrifuge the tube at 3000 g for 20 min. Decant the supernatant

5 - Washing

Add to the pellet 10/15 ml of Phosphate Buffer and centrifuge the tube at 3000 g for 20 min. Decant the supernatant.

Repeat the washing step and finally resuspend the pellet with 2 ml of Phosphate Buffer.

The pellet is ready to be processed for the detection of Mycobacteria.

REFERENCE

1- Riva G., Carcheri M., Ciacci P., Graziani A., Lacitignola G., Mentasti P., Pastorino I., Ventura A., Zanin C., Capuzzo R. Importanza della preparazione del campione per allontanare sostanze inibenti l'amplificazione utilizzando il Mycobacterium Tuberculosis Direct Test". XXXII Congresso AMCLI, Firenze 2003, M071.

PACKAGING

225001N	A.L.L. Collection Kit,	25 test (1 ml x 25)
225020	A.L.L. Solution,	50 ml
2203454	Digestion Reagent,	500 ml
225040	Phosphate Buffer 0,067 M pH 6,8	500 ml
225000	A.L.L. Digestion Neutralisation kit	20 tests

