

BD **BBL**[™] **MGIT**[™] System

Procedure for NALC/NaOH Decontamination/Digestion of Sputum

- Step 1** Prepare fresh digestant by adding equal amounts of 4% NaOH and 2.9% sodium citrate. Add 0.5 g NALC powder per 100 mL of sodium hydroxide-sodium citrate solution. After the NALC has been added, the digestant should be used within 24 hours.
- Step 2** Add the collected specimen to a 50 mL plastic centrifuge tube. The specimen should not exceed 10 mL. Add NALC solution in equal volume to that of the specimen. With the cap tightened, vortex the tube (about 5 - 20 seconds/tube) and invert the tube to ensure that the NALC solution contacts all surfaces of tube and cap.
- Step 3** Allow specimen to stand 15 - 20 minutes.
- Step 4** Fill tube to 50 mL with sterile phosphate buffer solution at pH 6.8. Swirl by hand to mix.
- Step 5** Concentrate the specimen in a centrifuge at a speed of 3,000 x g for 15 minutes.
- Step 6** Carefully decant the supernatant fluid from the pellet.
- Step 7** Resuspend the pellet sediment with phosphate buffer pH 6.8) using a sterile Pasteur pipet to achieve a final volume of 1 to 3 mL.



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Manual BD **BBL**[™] **MGIT**[™] System Procedure for **MGIT**[™] Tube Inoculation

- Step 1** Label the BD **MGIT** tube with specimen number.
- Step 2** Unscrew the BD **MGIT** tube cap and aseptically add 0.5 mL of BD **MGIT** OADC.
- Step 3** Aseptically add 0.1 mL of reconstituted BD **MGIT**[™] **PANTA**[™] antibiotic mixture. For best results, add OADC enrichment and **PANTA** antibiotic mixture just prior to specimen inoculation.
- Step 4** Add 0.5 mL of the concentrated specimen suspension prepared in NALC pellet procedure. Also add a drop (~0.1 mL) of specimen to a 7H10 agar medium or to an egg-based medium.
- Step 5** Tightly recap the tube and mix well.
- Step 6** Incubate tubes at 37° C.
- Step 7** Read tubes daily starting on Day 2.



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BD **BACTEC**[™] **MGIT**[™] **960** System Procedure for Tube Inoculation

- Step 1** Label the 7 mL BD **MGIT**[™] tube with specimen number.
- Step 2** Aseptically reconstitute BD **MGIT**[™] **PANTA**[™] with 15 mL of BD **BACTEC**[™] **MGIT**[™] Growth Supplement.
- Step 3** Unscrew the BD **MGIT** tube cap and aseptically add 0.8 mL of **MGIT PANTA**/Supplement mixture. For best results, add supplement enrichment and **PANTA** antibiotic mixture just prior to specimen inoculation.
- Step 4** Add 0.5 ml of the concentrated specimen suspension prepared in NALC pellet procedure. Also add a drop (~0.1 mL) of specimen to a 7H10 agar medium or to an egg-based medium.
- Step 5** Tightly recap the tube and mix well.
- Step 6** Enter tube into BD **BACTEC MGIT 960** instrument (see User's Manual).



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