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Category and Description: Product Insert BD MAX™ STR		Rev from: 03 Rev to: 04
		Job Number: 1699-20

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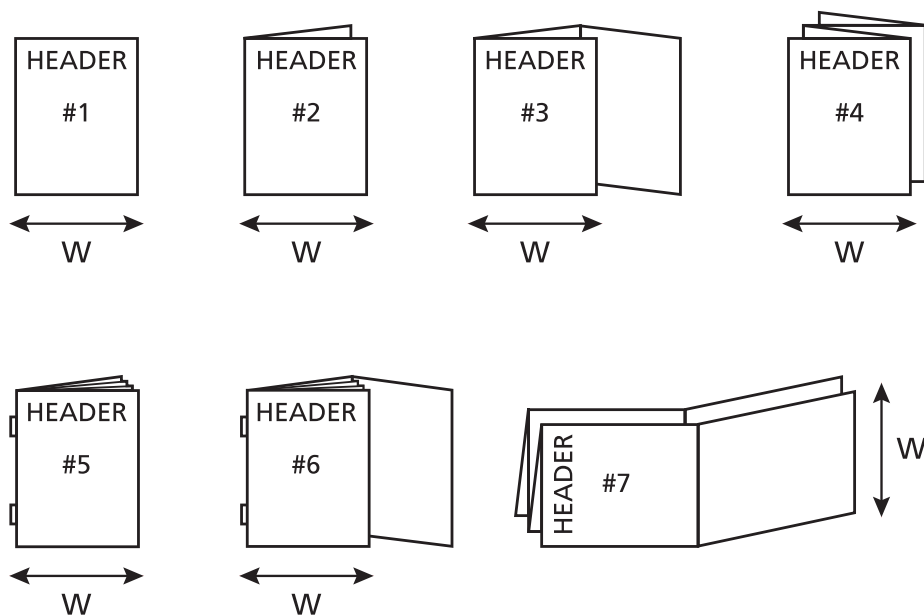
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See Specification control no. BALT500024910 for material information.



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For *In Vitro* Diagnostic Use
For use with the BD MAX™ System

REF 443806
500024910(04)
2020-06
English



INTENDED USE
BD MAX™ STR is a reagent intended to liquefy sputum specimens and reduce the viability of *Mycobacterium tuberculosis* complex prior to further processing on the BD MAX System.

SUMMARY AND EXPLANATION
Sputum specimens are typically viscous and not amenable to pipetting by automated instrumentation. STR is an alkaline solution that breaks down sputum, rendering the raw sputum or concentrated sputum sediment specimen suitable for processing on the BD MAX platform.

PRINCIPLES OF THE PROCEDURE
Raw sputum or concentrated sputum sediments prepared from induced or expectorated sputa are collected from subjects and transported to the laboratory in a leak-proof collection container. A dilution of the specimen is prepared in the collection container by adding BD MAX STR, so that the final ratio of STR:specimen is 2:1. The collection container is then capped and shaken vigorously 10 times, incubated at room temperature for 5 minutes and shaken vigorously again 10 times. The BD MAX STR-treated sample is then incubated at room temperature for 25 minutes. The prepared sample is then ready for use on the BD MAX system.

REF	Contents	Quantity
443806	BD MAX™ STR tubes (8 mL) (NaOH solution containing surfactants) Raw and processed sputa samples treatment reagent	48 tests (48 tubes)

EQUIPMENT AND MATERIALS REQUIRED BUT NOT PROVIDED

- Lab coat and disposable gloves, powder-less
- Biomedical Waste Containers
- Stopwatch or timer

For Raw sputum collection:

- Dry, clean leak-proof containers for collection of sputum

WARNINGS AND PRECAUTIONS

Danger

H314 Causes severe skin burns and eye damage.
H401 Toxic to aquatic life.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- BD MAX STR is for *in vitro* diagnostic use.
- BD MAX STR is corrosive.
- Do not use expired reagents and/or materials.
- Do not use reagents if the tubes are open or broken upon arrival.
- Do not interchange or reuse caps, as contamination may occur and compromise test results.
- Do not reuse BD MAX STR Tubes.
- Always handle samples as if they are infectious and in accordance with safe laboratory procedures such as those described in CLSI Document M29¹ and in Biosafety in Microbiological and Biomedical Laboratories.² Consult your institution’s environmental waste personnel, state and local regulations regarding proper disposal of STR-treated specimens.
- Avoid splashing or generating aerosols.
- Wear protective clothing and disposable gloves while handling all reagents.
- Wash hands thoroughly after performing the test.
- Do not pipette by mouth.
- Do not smoke, drink or eat in areas where specimens or kit reagents are being handled.
- Dispose of unused reagents and waste in accordance with country, federal, provincial, state and local regulations.

STORAGE AND STABILITY
Store the BD MAX STR kit at 2–30 °C.
Collected specimens should be kept between 2 °C and 35 °C during transport of up to 3 days. Protect against exposure to excessive heat.
Raw sputum: specimen can be stored for up to an additional 168 hours (7 days) at 2–8 °C before treatment with STR.
Sputum sediment: specimen can be stored for up to 168 hours (7 days) at 2–8 °C.
BD MAX STR treated samples can be stored at 2–28 °C for a maximum of 72 hours.

INSTRUCTIONS FOR USE
Specimen Collection/Transport
In order to obtain an adequate specimen, the procedure for specimen collection must be followed closely. All specimens should be collected and transported as recommended by the Centers for Disease Control and Prevention (CDC)², the Clinical Microbiology Procedures Handbook³, or your institution’s procedure manual. Patients should be seated or standing for collection of raw sputum. Patients should rinse their mouths of any potential food particles or debris prior to collection of sputum.

Raw sputum or concentrated sputum sediments prepared from induced or expectorated sputa specimens are collected according to the following procedure:

NOTE. Reject samples with obvious food particles or other solid particulates.

- Raw sputum: Using a leak-proof sputum collection container, collect at least 1 mL of sputum. Label the container and transport to the laboratory (refer to the Storage and Stability section).
- Sputum sediment: Decontaminate the sputum specimen with NALC/NaOH according to the method of Kent and Kubica.⁴ Re-suspend the sediment in up to 2 mL of 67 mM Phosphate/water buffer. Label the container and transport to the laboratory (refer to the Storage and Stability section).

Specimen Preparation.
For each raw sputa specimen or sputum sediment:

- Allow the sample to equilibrate to room temperature.
- Ensure gloves are clean prior to handling additional specimens; if contamination is suspected, change gloves.
- Carefully open the lid of the leak-proof sputum collection container using caution not to spill.
- Carefully open BD MAX STR tube and add the required volume so that the final ratio of STR:specimen is 2:1.
- Cap the collection container and shake (do not vortex) the solution vigorously 10 times (up and down equals 1 time).
- Incubate at room temperature for 5 minutes and shake vigorously again 10 times.
- Incubate BD MAX STR-treated sample at room temperature for 25 minutes.
- Prepare any additional specimens for testing by repeating the process from Step 1.
- Specimens are now ready for use on the BD MAX System.

LIMITATIONS OF THE PROCEDURE

- This product should only be used with the BD MAX System by trained personnel.
- This product is intended for use with raw sputum or concentrated sputum sediments prepared from induced or expectorated sputa.

REFERENCES

- Clinical and Laboratory Standards Institute. Protection of laboratory workers from occupationally acquired infections; Approved Guideline. Document M29 (Refer to the latest edition)
- Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in microbiological and biomedical laboratories. Chosewood, L.C. and Wilson, D.E. (eds) (2009). HHS Publication No. (CDC) 21-1112.
- Isenberg, Henry D. (ed.) 1992. Clinical microbiology procedures handbook. vol. 1. American Society for Microbiology, Washington, D.C.
- Kent, P.T., Kubica, G.P. 1985. Public Health Mycobacteriology – A Guide for Level III Laboratory, Centers of Disease Control, Atlanta, Publication no. PB 86-216546
- Clinical and Laboratory Standards Institute. Molecular Diagnostic Methods for Infectious Diseases; Approved Guideline, document MM3 (Refer to the latest edition).
- Clinical and Laboratory Standards Institute. User Protocol for Evaluation of Qualitative Test performance; Approved Guideline, Document EP12 (Refer to the latest edition).

Change History

Revision	Date	Change Summary
(04)	2020-06	Added detail to the Reagent and Materials section. Made typographical corrections. Updated Australia and New Zealand sponsor addresses.

