

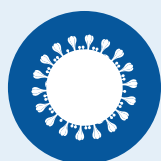


Diagnostic stewardship for tuberculosis (TB) testing

BD offers a legacy of trust and leadership
in options for TB testing



From specimen collection to final result, BD offers products to support *M. tuberculosis* and other mycobacteria testing needs



The COVID-19 pandemic has **reversed years of global progress** in tackling tuberculosis.¹



For the first time in over a decade, **TB deaths have increased**, according to the World Health Organization's 2020 Global TB report.¹



In the face of **increasing multidrug-resistant TB (MDR-TB)** BD offers both culture based drug susceptibility testing (DST) and rapid molecular testing.



Specimen collection
with BD® Sputum
Collection System



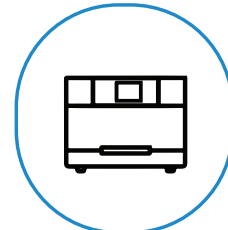
**Digestion, decontamination,
staining and microscopy**
with the BD BBL™ Mycoprep™ kit
and BD BBL™ Acid Fast
and Fluorescent Stains



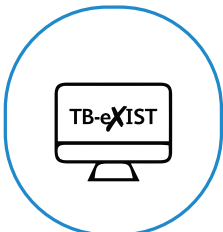
Direct molecular testing
with the BD MAX™
Automated Molecular System



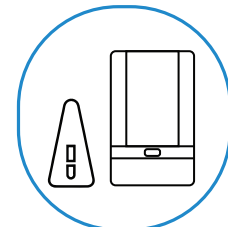
**Fully automated
liquid culture**
with the BD BACTEC™
MGIT™ System



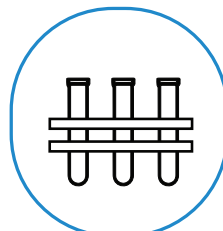
**Data management
and reporting tools**
with the BD EpiCenter™ Data
Data Management System and
TB-eXiST* Extended Susceptibility
Testing Software



Direct, fast ID from culture
with the BD MGIT™ TBc Identification Test*
and the BD Bruker MALDI Biotyper®



**Fully automated drug
susceptibility testing (DST)**
with the BD BACTEC™
MGIT™ Systems



*Ex-US only

The gold standard in phenotypic testing continues the legacy of trust

The **BD BACTEC™ MGIT™ Mycobacterial System²** offers:

- Detection and drug susceptibility testing for example: Streptomycin, Isoniazid, Ethambutol, Pyrazinamide and Rifampin
- Plastic tubes and no sharps for safe handling



Innovation in molecular testing with a rapid, multiplex test—four results in one test

MDR-TB Assay on the BD MAX™ Molecular Diagnostic System³

An integrated molecular assay for the detection of TB complex and mutations associated with the resistance of Rifampin and Isoniazid in one test.

- Simple implementation and a standardised workflow⁴
- Fully automated testing for IVD and open-system reagent capabilities^{4,5}
- Allows for increased throughput without additional staff⁵
- Requires no visual interpretation of results^{6,7}
- Easy to use⁸

The WHO recommends testing for genetic mutations associated with resistance to isoniazid (katG or inhA).⁸

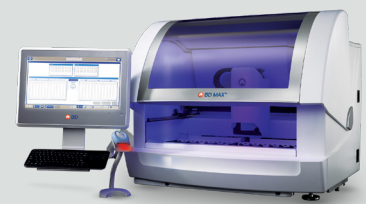


4in1

BD MAX™ MDR-TB

A single test. One assay.
Four results.

- MTB
- RIF-R
- INH-R (katG and inhA)



Data Management

The BD EpiCenter™ data management system provides advanced informatics capabilities that are designed for the continuous monitoring, analysis and reporting of all TB testing on BD BACTEC™ MGIT™. The optional TB-eXiST module (ex-US only) supports processing and reporting custom drug susceptibility testing.

- Simplified LIS interfacing
- Flexible reporting and analytics
- Customized DST panels with multiple drugs and concentrations, and growth curve displays to support interpretation.

A comprehensive portfolio of TB testing products



BD BACTEC™ MGIT™ Instruments

Cat. No.	Description	Quantity
441743	BD BACTEC™ MGIT™ 320	320 tubes
445870	BD BACTEC™ MGIT™ 960	960 tubes

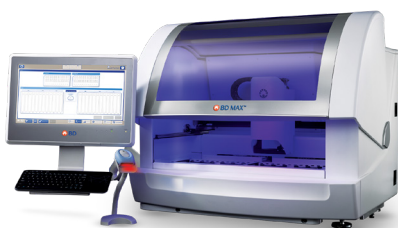
CE



BD BACTEC™ MGIT™ tubes and supplements

Cat. No.	Description	Quantity
245122	BD BACTEC™ MGIT™ Mycobacteria Growth Indicator Tubes 7 mL	100/pk
245124	BD BACTEC™ MGIT™ 960 Supplement Kit	100/pk

CE
2797



BD MAX™ Instrument

Cat. No.	Description	Quantity
441916	BD MAX™ Molecular Diagnostic System	1

CE



BD MAX™ Assays

Cat. No.	Description	Quantity	CE
443878	BD MAX™ Multi Drug Resistant Tuberculosis (MDR-TB) assay including PCR reagents	24 tests	CE 2797
443806	BD MAX™ STR including raw and processed sputa samples treatment reagent	48 tests	CE
437519	BD MAX™ PCR Cartridges	24 tests	CE



BD BACTEC™ MGIT™ 1st line drugs, media and kits

Cat. No.	Description	Quantity
245123	SIRE KIT, 1 bottle each: Streptomycin, Isoniazid, Rifampin, Ethambutol	1/pk
245125	Streptomycin 4.0 Kit	1/pk
245126	Isoniazid 0.4 Kit	1/pk
245127	Ethambutol 7.5 Kit	1/pk
245157	IR (Isoniazid and Rifampicin) Kit (2 vials PZA and 6 vials PZA supplement)	1/pk
245128	PZA Drug Kit	1/pk
245115	PZA Medium	25/pk
245114	PANTA Antibiotic Mixture, Lyophilized	6/pk
245116	OADC Enrichment	6/pk



BD BACTEC MGIT 2nd line drugs*

Cat. No.	Description	Quantity
215348	Kanamycin* (830 ug/vial, lyophilized)	6/pk
215404	Moxifloxacin* (249 ug/vial, lyophilized)	6/pk
215350	Amikacin* (332 ug/vial, lyophilized)	6/pk
215351	Capreomycin* (830 ug/vial, lyophilized)	6/pk
215352	Ofloxacin* (664 ug/vial, lyophilized)	6/pk
215355	Ethionamide* (830 ug/vial, lyophilized)	6/pk
215356	p-aminosalicylic acid* (1328 ug/vial, lyophilized)	6/pk
215449	Bedaquiline* (170 ug/vial, lyophilised) requires DMSO diluent, sold separately Available ex-US only	2/pk
246017	DMSO Diluent* (16 mL/vial)	2/pk

NEW

NEW

*For laboratory use only. Not for drug, household or other uses.



Specimen collection and decontamination

Cat. No.	Description	Quantity
290020	BD Sputum Collection System	72
240862	BD MycoPrep™ specimen decontamination kit – 75 mL	Kit
240863	BD MycoPrep™ specimen decontamination kit – 150 mL	Kit



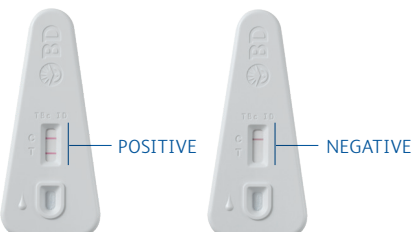
Prepared tubed media

Cat. No.	Description	Quantity
220908	Lowenstein-Jensen Medium Slants. 20 x 148 mm tube with cap	Pkg. of 10
220909	Lowenstein-Jensen Medium Slants. 20 x 148 mm tube with cap	Ctn. of 100



Stains

Cat. No.	Description	Quantity
212521	BD BBL™ TB Stain Kit T 1 250 mL bottle each of TB Auramine-Rhodamine T, TB Decolorizer TM, TB Potassium Permanganate	1 Each
212522	BD BBL™ TB Stain Kit K 1 250 mL bottle each of TB Carbolfuchsin KF, TB Decolorizer, TB Brilliant Green K	1 Each



Rapid confirmatory testing

Cat. No.	Description	Quantity
245159	BD MGIT™ TBc Identification Test	25/pk



References:

1. BD-65863 BD_BACTEC_MGIT_Systems_EMEA.
2. BD-30038 MDR_TB_Brochure.
3. FIND BD BACTEC[®] MGIT[™] 960 TB User Manual 2006.
4. Bauman M. Transitioning from culture to molecular: implementation and integration of BD MAX[™] Enteric Bacterial Panel at Cincinnati Children's Hospital. BD Advertorial. Franklin Lakes, NJ: Becton, Dickinson and Company, 2015.
5. Hirvonen JJ, Kaukoranta S-S. Comparison of BD MAX Cdiff and GenomEra C. difficile molecular assays for detection of toxigenic Clostridium difficile from stools in conventional sample containers and in FecalSwabs. *Eur J Clin Microbiol Infect Dis.* 2015;1-5.
6. BD MAX[™] Enteric Bacterial Panel [package insert]. Becton, Dickinson and Company: Franklin Lakes, 2014.
7. Shah M, Paradis S, Betz J, et al. Multicenter Study of the Accuracy of the BD MAX Multidrug-resistant Tuberculosis Assay for Detection of Mycobacterium tuberculosis Complex and Mutations Associated With Resistance to Rifampin and Isoniazid. *Clin Infect Dis.* 2020;71(5):1161-1167.
8. World Health Organization. *WHO consolidated guidelines on drug-resistant tuberculosis treatment.* Geneva: 2019. Accessed June 30, 2020.

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