

Σ -MM™ Molecular Medium

From Specimen to Safe
DNA/RNA in a single step

The Terminator



- Powerful reagent-based medium kills deadly pathogens in seconds
- Safe and stable for transport at ambient temperature
- Effective for mycobacteria
- Effective for viruses
- Effective for bacteria
- Nucleases inactivated
- DNA and RNA preserved intact
- Perfect specimens for molecular testing



Bacteria
and Viruses
killed in
seconds

RNA &
DNA
Remain
intact

Σ-MM™ Molecular Medium

www.mwe.co.uk

- High quality nucleic acid from specimens in a single step
- Suitable for all microorganisms
- Suitable for highly infectious clinical specimens including *Mycobacterium tuberculosis*
- Rapid killing / inactivation of all infectious agents
- Instant inactivation of DNase and RNase

Sigma MM™ contains a powerful reagent-based medium which kills pathogens immediately while retaining DNA and RNA intact, ready for analysis. The medium disturbs and lyses lipid membranes, destroys proteins including DNase and RNase, leaving stable intact DNA or RNA. Specimens collected into Sigma MM™ can be transported at ambient temperatures. No freezing or refrigeration is required. Specimens can be collected using any microbiology swabs, including MWE Transwabs®, Dryswabs™ and Sigma Range products.



Mycobacterium tuberculosis

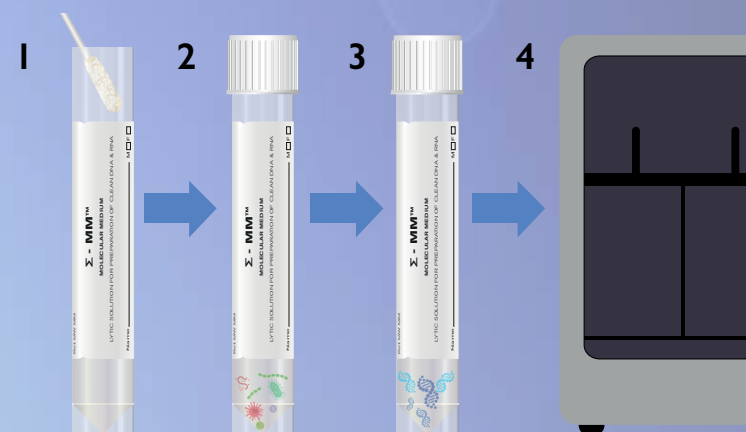
The Sigma MM™ device is a highly effective single step collection, storage and transport system for specimens where there is a high risk of dangerous pathogens. Microorganisms such as bacteria, including mycobacteria, and viruses are killed within seconds, while DNA and RNA is maintained intact, ready for analysis locally, but also in a format suitable for long distance national or international transportation, for example to expert reference laboratories.

Effective rapid killing has been demonstrated for bacteria, including *Staphylococcus aureus*, *Escherichia coli*, *Haemophilus influenzae*, and *Streptococcus pneumoniae*, and viruses including Influenza A and Influenza B.

For *Mycobacterium tuberculosis* (TB) no growth could be detected from specimens treated for 1 minute, then incubated in a special broth culture system for 7 weeks. DNA was still easily detected 7 weeks after the initial treatment.

Sigma MM™ medium is supplied in ready to use tubes, and is stored at ambient temperature.

How to use



- 1 Sample material (eg from swab, loop, pipette) is added to Sigma MM™
- 2 Bacteria cells and viruses are destroyed and inactivated within seconds.
- 3 Intact DNA/RNA is released
- 4 Molecular testing can be performed.

Sigma MM™ ordering information

Code	Description	Fill	Pack
MW MM	Sigma MM™ Liquid Molecular Medium for Pathogenic Specimens	1.5ml	50

04/18