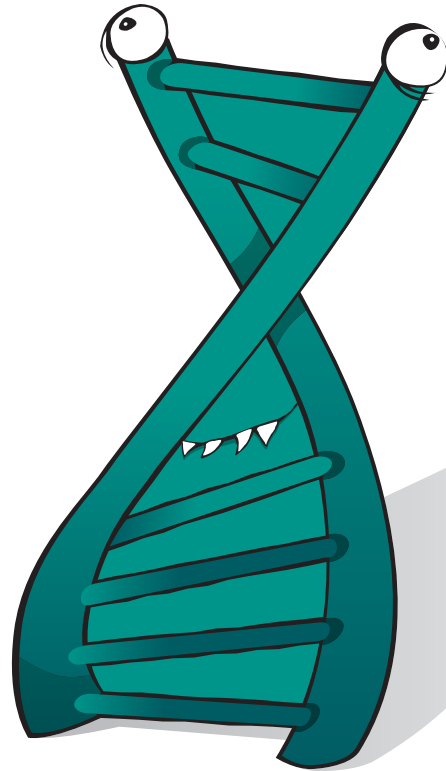


MycXtra®

DNA extraction

**Effective extraction
of fungal DNA
from clinical
respiratory samples**

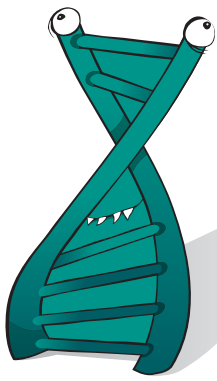


The **MycXtra®** fungal DNA Extraction Kit isolates and purifies fungal DNA from BAL and sputum samples for subsequent PCR analyses.

Using standard PCR analysis, the kit has been proven to be free from detectable fungal contamination.

This ensures that any fungal DNA detected during molecular testing is likely to be of patient origin.





Procedure

MycXtra® is simple and quick to perform. It uses a combination of lysis and mechanical force to break down tough fungal cell walls and maximise yield from both hyphae and spores; the released DNA is bound to a silica spin filter, washed, and eluted. It is of high purity and suitable for PCR and Real-Time PCR.

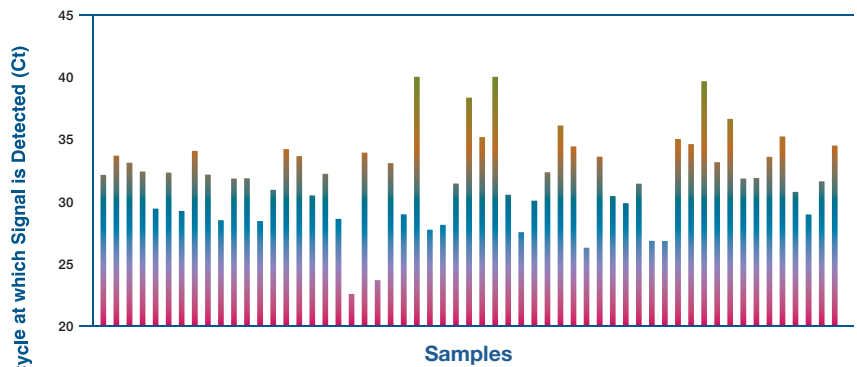
PCR inhibitor removal

Many clinical samples contain PCR inhibitors such as heparin and tobramycin. The **MycXtra®** process contains a step where these inhibitors, and many others, are completely removed, ensuring reliable and reproducible PCR and Real-Time PCR amplification.

Features and benefits

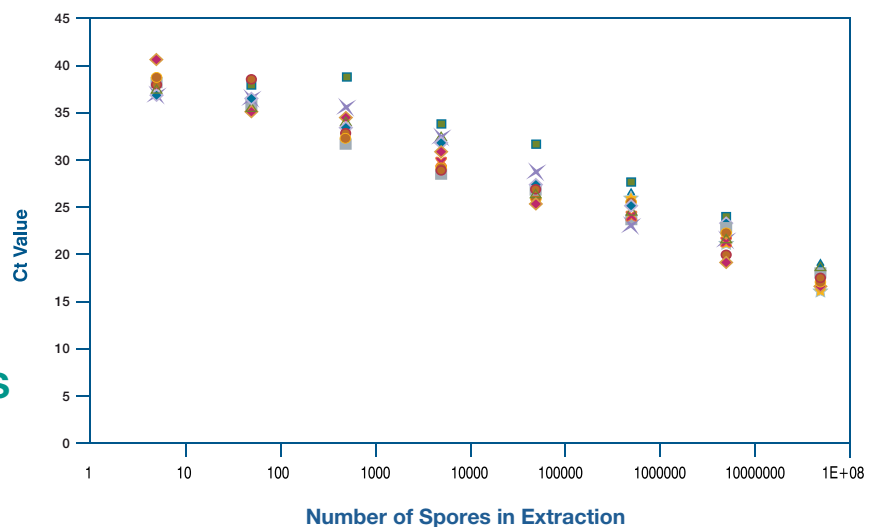
- 10 tests/kit
- CE marked
- 18 month expiry
- Minimal equipment required:
 - Vortex Genie® 2
 - Adaptor Plate for Vortex Genie® 2 (available from Myconostica REF 080-015)
- Rapid: 10 extractions in 60 minutes
- Provides 40 µL PCR quality DNA from as few as 10 spores.

Real-Time PCR Detection of DNA extracted from *Pneumocystis* with MycXtra®



MycXtra extracts DNA from *Pneumocystis jirovecii* in clinical samples. DNA was extracted from 57 samples in which *Pneumocystis* had been reported by microscopy, and was detected in 54 of them. *Pneumocystis* DNA was detected by Real-Time PCR. A Ct >38.5 indicates DNA was not detected in the sample.

Aspergillus Spore Concentration vs. Ct Value



Detectable DNA can be reproducibly extracted from *Aspergillus* spores using the MycXtra® kit. Over 10 independent extractions were performed on dilutions of *Aspergillus* spores. Detectable DNA was extracted from samples containing fewer than 10 spores. *Aspergillus* DNA was detected using Real-Time PCR.

MycXtra® Requires the following Additional Equipment

Part	Supplier	Code
Vortex Genie® 2	Your supplier	Various
Vortex Adapter Plate	Myconostica	080-015