

foodproof®

Aspergillus Detection LyoKit

Aspergillus is a common type of mold that can cause serious health problems like aspergillosis, especially in immunocompromised individuals or people with a lung disease. Additionally, *Aspergillus* species such as *A. niger*, *A. fumigatus*, *A. terreus* and *A. flavus* produce mycotoxins, which pose a risk to the health of the consumer. In the USA, there are known cases of patients falling ill and even dying following the consumption of medical cannabis containing mold spores. Given the serious health consequences, we developed a precise, rapid test for pathogenic *Aspergillus* species.

The **foodproof Aspergillus Detection LyoKit** is a lyophilized multiplex real-time PCR kit for the simultaneous identification of the species *A. flavus*, *A. terreus*, *A. niger* and *A. fumigatus* in a single test. The test kit meets the AOAC SMPR® requirements for the detection of *Aspergillus* in cannabis.

The kit includes all of the needed real-time PCR reagents to detect and identify the four pathogenic *Aspergillus* species along with a control template for reliable results.

Fast: Two days to results vs. 5 to 7 days (culture methods). Less than 30 minutes hands-on time. Rapid 8-channel pipette DNA extraction protocol available.

Sensitive: < 10 CFU per sample or 10² - 10³ CFU/ml after enrichment

Precise: Simple, software-supported data interpretation with the BAX® System Q7. No need to identify hard to interpret fungal growth morphologies on culture plates.

Convenient: Lyophilized kit enables easy detection of four species in one assay using only a few pipetting steps. No need to interpret multi-colored fungal lawns on plates.

Safe: Internal control in every sample to prevent carry-over contamination and to validate results even in the absence of target.

Best Specificity

100% Inclusivity

Test of a representative set of 66 strains: 21 strains of *Aspergillus flavus*, 6 strains of *Aspergillus terreus*, 21 strains of *Aspergillus niger* and 18 strains of *Aspergillus fumigatus*.

Superior Exclusivity

DNA extracts of 36 related species tested, 20 other *Aspergillus* strains, 14 non-*Aspergillus* molds, and 2 bacterial strains.

Approvals

Kit design according to AOAC SMPR®

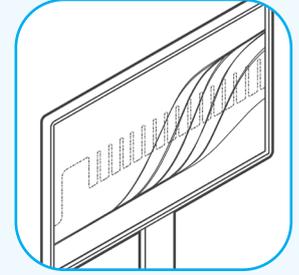
Workflow



Enrichment
44 h



DNA Extraction
Duration depending on protocol
and number of samples



Real-Time PCR
100 min

DNA Extraction Kits

Manual

BAX® Prep *Aspergillus* Lysis Kit (rapid lysis)
KIT2044

BAX® Prep *Aspergillus* Supplement Kit (rapid lysis)
KIT2045

foodproof StarPrep® Two Kit - (advanced)
KIT230177

foodproof StarPrep Two 8-Strip Kit - (high-throughput)
KIT230186

Additional

foodproof Reagent D - (optional: removes dead cells)
KIT230001

Real-Time PCR Kits

foodproof *Aspergillus* Detection LyoKit
KIT230145 (LP), KIT230146 (RP), KIT230147 (DP)

BAX System Q7

foodproof *Aspergillus* with BAX® Prep Lysis
KIT2046

Content:

- BAX Prep *Aspergillus* Lysis Kit
- BAX Prep *Aspergillus* Supplement Kit
- foodproof *Aspergillus* Detection LyoKit (LP)

Tests

96

96

96 (42 mL)

480

Tests

100 (30 mL)

Tests

96

Tests

96

Matrices

Successfully tested with cannabis and hemp matrices like oils, chocolate, tea, coffee, creams, shampoo, flowers and seeds.

LyoKits

Fast & Convenient

Lyophilized, prefilled reaction mix reduces hands-on time and minimizes contamination risks.

Easy Storage & Safe Transportation

Ships at room temperature, store at 2 °C to 8 °C.

Instrument Compatibility

Different Profile (DP):

e.g., Dualo 32® R²

Low Profile (LP):

e.g., BAX® System Q7, LightCycler® 480, LightCycler® 96, AriaMx, Bio-Rad CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™

Regular Profile (RP):

e.g., Mx3005P

Other cyclers on request.

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