

PATHONOSTICS

PneumoGenius®: a multiplex real-time PCR assay for the detection and quantification of *Pneumocystis jirovecii* and DHPS mutations.

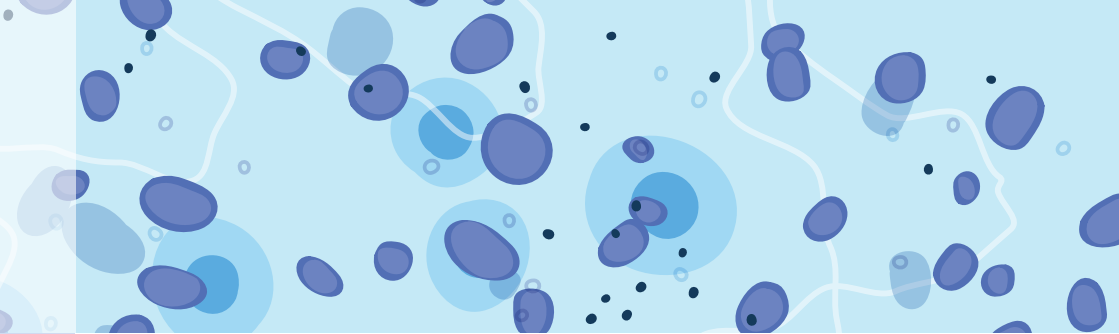
Overview

PneumoGenius® is a multiplex real-time PCR assay that detects *Pneumocystis jirovecii* in respiratory tract samples within 2.5 hours. *Pneumocystis jirovecii* is a common cause of life-threatening

pneumonia in immunocompromised patients. Fast diagnosis and the initiation of appropriate therapy may lead to improved outcome and survival. The PneumoGenius® assay also determines the presence of 2 mutations that are associated with failure of treatment using sulfa-drugs. These mutations are located on codons 55 and 57 of the multi-domain FAS gene, encoding the enzyme dihydropteroate synthase (DHPS).

The PneumoGenius® multiplex PCR assay is suitable for real-time PCR instruments using melting curve analysis, and has been validated on LightCycler 480 (Roche), Rotor-Gene Q (Qiagen) CFX96™ (Bio-Rad) and the Mic qPCR (BMS).





Product

PneumoGenius® multiplex kit (PN-600) – 25 reactions

- Detection of *Pneumocystis jirovecii*
- Quantification of *Pneumocystis jirovecii*
- Identification of mutations in DHPS

Targets

- *Pneumocystis jirovecii* mtLSU
- *Pneumocystis jirovecii* DHPS domain of the FAS gene (codons 55 and 57)
- Internal Control

Diagnostic specimens

- Bronchoalveolar lavage (BAL) samples

Quality

- Validated on clinical samples (BAL)
- Validated on PCP EQA programmes (QCMD)
- **CE**-IVD marked

Features and benefits

- Direct detection in BAL samples
- Identification of two prevalent point mutations in the DHPS domain of the FAS gene
- Diagnosis within 2.5 hours after nucleic acid extraction
- Internal Control included
- Positive Control included
- Including 4 quantification standards