

PLEX-ID Pneumococcus Serotyping Assay

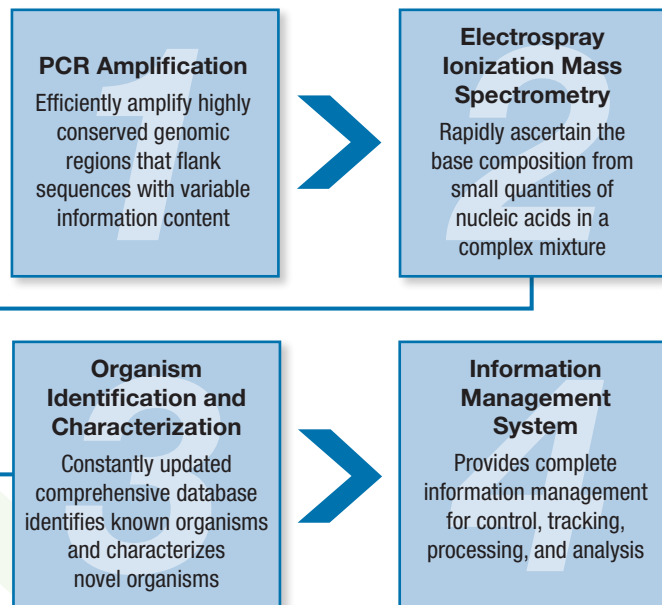
PLEX-ID provides information for public health and biological research, biopharmaceutical development, and forensics.

- PLEX-ID can **detect and characterize** both known and previously unknown organisms found in a sample
- PLEX-ID combines the **sensitivity and specificity** of polymerase chain reaction (PCR), the **precision and accuracy** of mass spectrometry (mass spec), a **comprehensive database**, and an **identification algorithm**
- PLEX-ID can provide **consolidated analysis** of multiple components within **polymicrobial mixtures**
- PLEX-ID can deliver results **simply and in less than 8 hours**
- PLEX-ID consolidates the strengths of multiple testing technologies to **generate a broad range of data**

The PLEX-ID Pneumococcus Serotyping assay is intended for the detection, identification, and characterization of *Streptococcus pneumoniae* and related organisms from culture isolates

Capabilities

- Detection and identification of all *S. pneumoniae* species
 - The assay will identify the serotype of *S. pneumoniae* in positive samples
 - 64 serotypes can be detected that can be binned into 49 distinct serotype groups
 - The assay will identify the MLST type of *S. pneumoniae* in positive samples
 - 6158 MLST sequence types in the database



PLEX-ID Workflow



Rapidly identify known and unknown organisms with PCR Assay and Electro spray Ionization Mass Spectrometry

Coverage and Database

- The database for the PLEX-ID Pneumococcus Serotyping Assay contains sequence information for 64 sero-specific and 8 MLST targets that can theoretically be detected and identified
- Eleven strains representing different serotypes are covered including serotype 1, serotype 5, serotype 14, serotype 11A, serotype 15A, serotype 18C, serotype 23A, serotype 24F, serotype 6A, serotype 7C, and serotype 9V
- Detections will be reported as either a single species call or a small cluster of closely related species that are indistinguishable by the assay
- Unknown detections with novel basecount signatures will be reported and linked to the closest known species in the database

Coverage	Target Genes	Target Serotypes
<i>Streptococcus pneumoniae</i> specific genes	CAP3C, CPS19AK, MNAB, WCIL, WCIP, WCIS, WCRG, WCRH, WCWH, WCWL, WCWV, WXY5, WZX, WZX9N9L, WZY, WZY13, WZY23A	1, 3, 4, 5, 6A/6B/6C/6D, 6A/6B/6C/6D, 7C, 7B / 40, 7F, 8, 9N/9L, 9N/9L, 9V, 9A, 10A/10B, 10A/10B, 11A, 11D / 11F, 11A, 11D / 11F, 12A, 46 / 44, 12B&F, 13, 14, 15A/15F, 15B, 15C, 15A/15F, 16F, 17F, 18A / 18F / 18B, 18C, 18A / 18F / 18B, 18C, 18A / 18F / 18B, 18C, 19A/B/C/F, 19F / 19A, 19A/B/C/F, 19A/B/C/F, 19A/B/C/F, 19F / 19A, 20, 22A, 22F, 23A, 23F/23B, 23F/23B, 23F/23B, 38/25F, 35F/47F/ (29,25A), 31, 33F, 33A / 37, 34, 35B, 35F/47F/ (29,25A), 33F, 33A / 37, 38/25F, 7C, 7B / 40, 12A, 46 / 44, 12B&F, 35F/47F/ (29,25A), 18A / 18F / 18B, 18C
MLSTs	spi, ddl1, ddl2, gdh, gki, recP, xpt, aroE	

To Order Product	Description	Catalog No.
PLEX-ID Pneumococcus Serotyping Assay	10 plates (120 assays)	06N39-61
PLEX-ID Pneumococcus Serotyping Assay (configured for T5000)	10 plates (120 assays)	06N39-01

Ask differently.

For more information, please contact:

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PLEX ID

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