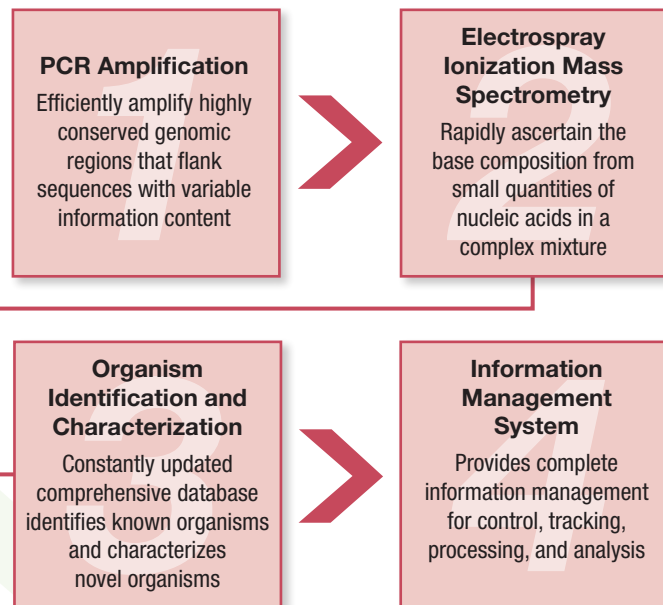


PLEX-ID *Clostridium difficile* Typing and Virulence Assay

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**



PLEX-ID Workflow

The PLEX-ID *Clostridium difficile* Typing and Virulence (CDTV) assay detects the presence of *C. difficile* in a sample and provides further characterization on the basis of presence or absence of various toxin genes and virulence markers

Capabilities

- Detection and identification of all *Clostridia* species
 - Species confirmation of *C. difficile*
 - Detection of toxins A & B and binary toxins
 - Detection of mutations in *tcdC* associated with virulence
 - Identification of the virulent ribotype B1/NAP1/O27
- Characterization of mixtures of targeted organisms present within a sample

PLEX-ID CDTV assay allows for analysis of culture isolates or specimens, e.g., stool, swabs



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

Coverage and Database

- The database for the PLEX-ID CDTV assay contains sequence information for 27 species from the targeted groups that can theoretically be detected and identified
- The CDTV assay targets the *tcdA*, *tcdB* and the negative regulator *tcdC* in addition to the detection of binary toxins A & B (*cdtA*, *cdtB*); these are virulence factors present in 6%–10% of all virulent *C. difficile* isolates
- 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 |
|---|--|
| <i>Clostridium difficile</i> specific genes | <i>cdtA</i> (binary toxin A) <i>cdtB</i> (binary toxin B) <i>tcdA</i> (enterotoxin A) <i>tcdB</i> (cytotoxin B) |
| <i>Clostridium</i> species markers | <i>tpi</i> (triosephosphate isomerase) |
| <i>Clostridium difficile</i> specific genes for detection of NAP-1 genotype | <i>tcdC</i> 18 bp deletion <i>tcdC</i> promoter deletion |

| To Order Product | Description | Catalog No. |
|--|------------------------|-------------|
| PLEX-ID <i>Clostridium difficile</i> Typing and Virulence Assay | 10 plates (120 assays) | 04N51-62 |
| PLEX-ID <i>Clostridium difficile</i> Typing and Virulence Assay (configured for T5000) | 10 plates (120 assays) | 04N51-02 |

Ask differently.

For more information, please contact:

Abbott Molecular
www.abbottmolecular.com
 800.553.7042

PLEX ID

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