Unyvero is designed to expand with your growing needs

Applications for severe infections:

- Blood Culture – BCU
- Hospitalised Pneumonia – HPN
- Intra-Abdominal Infection – IAI
- Implant & Tissue Infection – ITI
- Urinary Tract Infection – UTI

Unyvero L4 Lysator
Unyvero C8 Cockpit
Unyvero A50 Analyzer

Unyvero’s sample-to-answer platform provides rapid results for severe infectious diseases in hospitalized patients

Powerful multiplex PCR technology combined with the broadest range of microorganisms and resistance targets sets the Unyvero System apart.

The Unyvero System consists of:

- Lysator to lyse and process a variety of native samples
- Cockpit to manage testing process, display, store, and transmit results
- Analyzer to perform DNA testing with random access, multiplex PCR

A single test handles one patient sample, analyzes over 100 DNA analytes and delivers reliable results within just 4-5 hours

Intra-Abdominal Infection

Fast & Simple Syndromic Testing for Severe Infections - Improving Patient Outcomes
Intra-abdominal infections (IAI) are often associated with poor prognosis, particularly in high-risk patients.

- Early clinical diagnosis and appropriate antimicrobial therapy are essential in the management of intra-abdominal infections.
- Conventional microbiology methods can take 1-4 days and diagnosis of anaerobic bacteria up to 14 days.
- Delayed or inadequate antimicrobial therapy is associated with poorer outcomes and increased death.
- Global antibiotic resistance continues to rise steadily.
- Cost of antifungal treatment is very high.
- Early clinical diagnosis and appropriate antimicrobial therapy are essential in the management of intra-abdominal infections.

The Unyvero IAI Application simultaneously detects a large panel of bacteria, fungi, toxins and antibiotic resistance markers directly from IAI samples.

### Study 1

**CE Performance evaluation study.**

**Number of samples:** 352 culture positive samples.

- **Sample types:** Blood, ascites, peritoneal fluid, pus, bile, pancreatic juice, peritoneal fluid, pus, ascites, tissue, positive blood cultures isolated with enterobacteriaceae.

- **Additional identification:**
  - Additional potential pathogens were detected in 338 cases.
  - 360 confirmed as true positives (PCR and sequencing).

- **Sensitivity:** 89.2%
- **Specificity:** 99.5%

**Improved microorganism detection.** Additional microorganisms identified, in particular anaerobes, with most detections (94.4%) confirmed by sequencing.

**Microbiology reported results negation for IAI samples.**

Of these, 62 samples (72%) also negative with Unyvero IAI were confirmed by sequencing.

**Additional potential pathogens were detected in the remaining 24.**

**Time saving:** Using Unyvero, the average time to results was reduced by 77% compared to identification results.

**Time saving:**

- **17 hours saved**
- **30.8 ± 16.3 hours for microbiology**
- Using Unyvero, the average time to results was reduced by 41% compared to full AST results.

- **4 hours saved**
- **(34.9 ± 12.1 hours for microbiology vs. 20.4 ± 5.3 hours Unyvero IAI)**

### Study 2

**Multicentre Clinical Evaluation, Barts Health NHS Trust, The Great Romagna Hub, CHU Amiens and CHU Toulouse.**

**Number of samples:** 332 culture positive samples.

- **Sample types:** Blood, ascites, peritoneal fluid, pus, bile and bile.

- **Improved microorganism detection.** Additional microorganisms identified, in particular anaerobes, with most detections (94.4%) confirmed by sequencing.

**Microbiology reported results negation for IAI samples.**

Of these, 62 samples (72%) also negative with Unyvero IAI were confirmed by sequencing.

**Additional potential pathogens were detected in the remaining 24.**

**Time saving:**

- **Using Unyvero, the average time to results was reduced by 77% compared to identification results.**
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