



unyvero

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 microorganism 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

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Unyvero is designed to expand with your growing needs

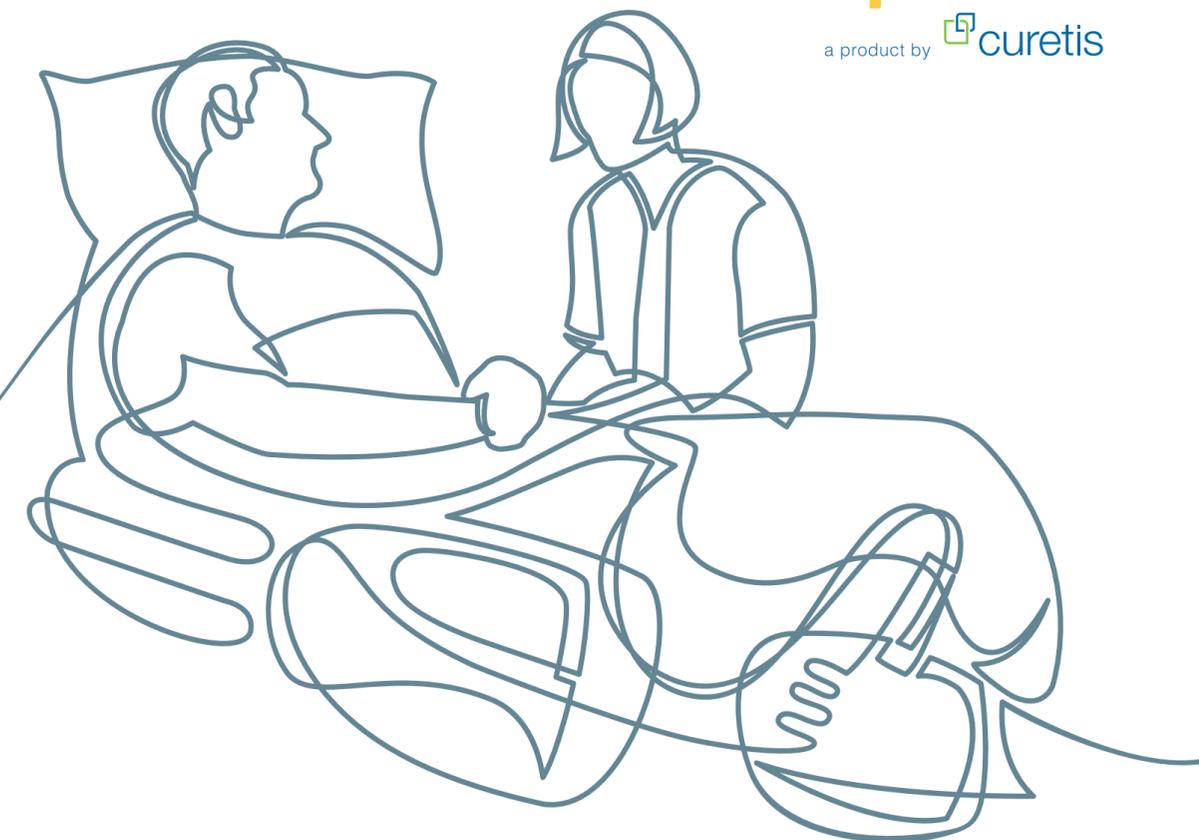
Applications for severe infections:

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



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Urinary Tract Infection

Fast & Simple Syndromic Testing for Severe Infections - Improving Patient Outcomes



Unyvero L4 Lysator



Unyvero C8 Cockpit



Unyvero A50 Analyzer

The Unyvero System is distributed on an exclusive basis by A.Menarini Diagnostics in the following countries: Benelux, France, Germany, Greece, Italy, Portugal, Spain, United Kingdom.

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UTIs are among the most common hospital-acquired infection¹

- Urinary tract infections (UTIs) account for a major part of clinical workloads in microbiology laboratories.
- UTIs are among the most prevalent hospital-acquired infections, and are the second most common cause of bacteremia in hospitalized patients.²
- Mortality rates for patients with urosepsis range from 25 to 60%.³
- The number of UTIs caused by antibiotic-resistant bacteria is increasing.⁴

Annual cost for UTIs in France is € 58 million.⁵

¹ Point prevalence survey: Acute care hospitals 2011-2012.
² WHO. Prevention of hospital acquired infections: A practical guide. 2nd edition. 2002.
³ Paech B. et al., Risk Factors for Urosepsis in Older Adults: A Systematic Review. 2016. 2:1-7.
⁴ English surveillance programme for antimicrobial utilisation and resistance (ESPAUR) Report 2017.
⁵ François M. et al., The economic burden of urinary tract infections in women visiting general practices in France: a cross-sectional survey. BMC Health Serv Res. 2016;16(a):365.

Faster detection enables earlier optimization of therapy

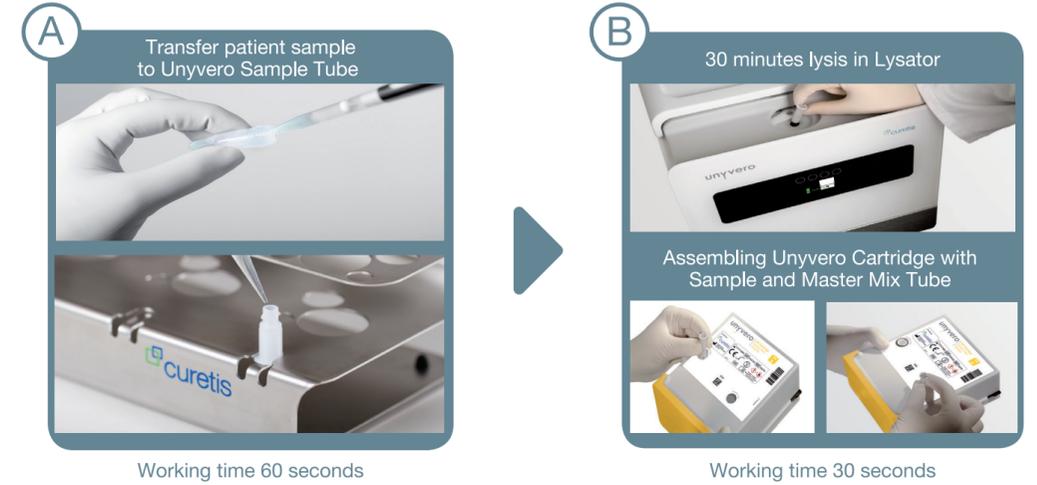
The Unyvero UTI Application simultaneously identifies a large panel of bacteria, fungi, and antibiotic resistance genes directly from urine samples.

Unyvero UTI can be used for diagnosis of complicated urinary tract infection and their consequences:

- Catheter-associated urinary tract infections
- Complicated cystitis
- Urosepsis
- Pyelonephritis

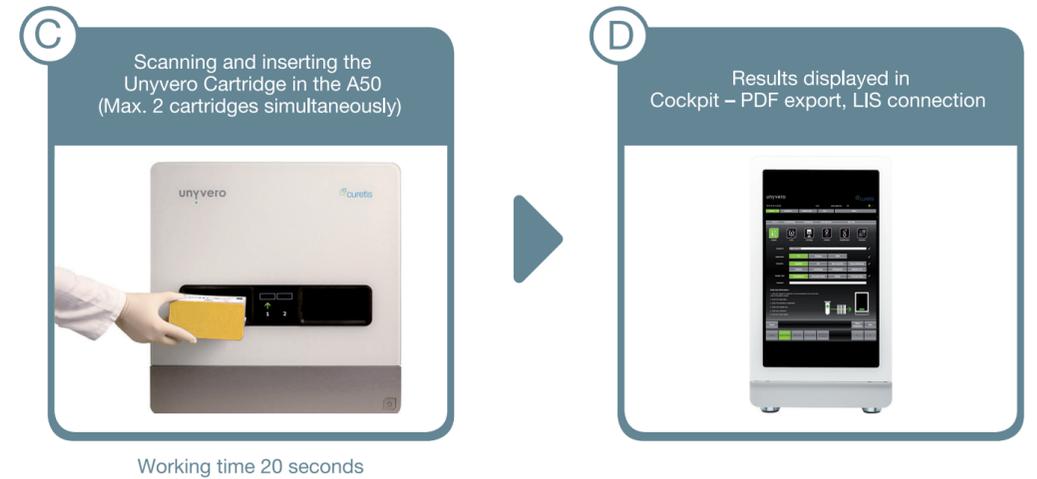
Uropathogens can be detected in 4-5 hours using the Unyvero solution

Unyvero Workflow of the Unyvero System



Unyvero Urinary Tract Infection (UTI) Cartridge

| Gram-positive bacteria | Enterobacteriaceae | Non-fermenting bacteria | Universal bacteria | Resistance | Gene |
|-------------------------------------|---|--|---|-------------------------------|--|
| <i>Staphylococcus aureus</i> | Enterobacteriaceae | <i>Acinetobacter baumannii</i> complex | Detection of prokaryotic genetic sequence | Oxacillin | <i>mecA</i> |
| Coagulase negative staphylococci | <i>Citrobacter freundii/koseri</i> <i>Klebsiella aerogenes</i> (<i>E. aerogenes</i>) | <i>Pseudomonas aeruginosa</i> | | Glycopeptides | <i>vanA</i> <i>vanB</i> |
| <i>Staphylococcus saprophyticus</i> | Enterobacter cloacae complex | Anaerobic bacteria | Fungi | 3rd generation Cephalosporins | <i>ctx-M</i> |
| <i>Streptococcus agalactiae</i> | <i>Escherichia coli</i> | | | Carbapenem | <i>kpc</i> <i>imp</i> <i>ndm</i> <i>oxa-23</i> <i>oxa-24/40</i> <i>oxa-48</i> <i>vim</i> |
| <i>Enterococcus</i> spp. | <i>Klebsiella oxytoca</i> | <i>Bacteroides</i> spp. / <i>Prevotella</i> spp. | <i>Candida</i> spp. | Polypeptides / polymyxins | <i>mcr-1</i> |
| <i>Enterococcus faecalis</i> | <i>Klebsiella pneumoniae</i> | | <i>Candida albicans</i> | Fluoroquinolones | <i>qnrB</i> <i>qnrS</i> |
| <i>Enterococcus faecium</i> | <i>Klebsiella variicola</i> | | <i>Candida auris</i> | Sulfonamide | <i>sul1</i> |
| <i>Corynebacterium urealyticum</i> | <i>Proteus</i> spp. <i>Providencia</i> spp. | | <i>Candida glabrata</i> | | |



4 to 5 hour analysis process



Easy Workflow



Multiple Sample Types



24/7 Results