





CURETIS – TAKING AN ALL-IN-ONE APPROACH TO DIAGNOSING INFECTIONS AND RECOGNISING ANTIBIOTIC RESISTANCES



Curetis pools exceptional technical expertise with profound experience that covers from identifying clinically relevant measurements, through product specification and design, to manufacturing, regulatory approval, and commercialization. The result is a complete and simple solution to meet the currently unmet diagnostic needs in quickly detecting infections, and to overcome the challenge of recognizing antibiotic resistances.

THE IMPORTANCE OF EARLY DETECTION

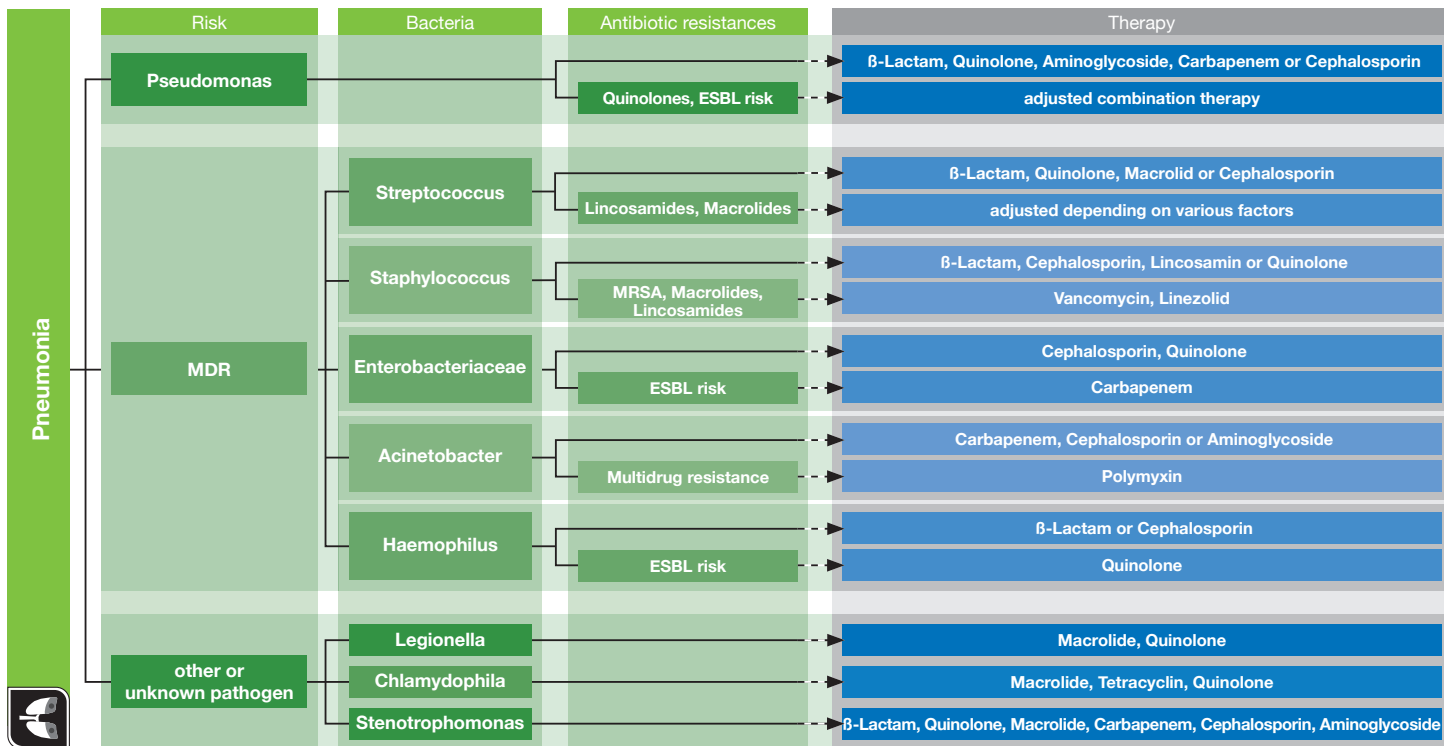


There is a notable lack of tools or methods that can deliver accurate and comprehensive diagnostic information in time for confident early treatment decisions for severe bacterial infections. This leads to empiric therapies. These, in turn, can often make therapy more complicated and expensive – each hour of

delay in administering an effective anti-microbial therapy results in a decrease in survival. Inappropriate initial treatment can also contribute to drug resistant variations of the infections.

THE UNYVERO SOLUTION – A SINGLE SOURCE FOR BOTH DETECTING PATHOGENS, AND IDENTIFYING ANTIBIOTIC RESISTANCES

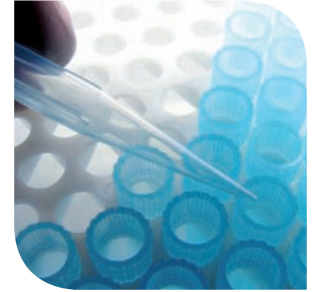
Curetis Unyvero Pneumonia Panel based on internationally-recognised, clinical pneumonia treatment guidelines



Severe pneumonia is an expensive, high incidence, acute infection with more than **11 million patients** a year in the U.S. and Europe, and **mortality rates up to 36%**. Rapid and accurate diagnosis and effective initial treatment – knowing which antibiotic to use, and which drugs will fail – has the potential to reduce both mortality and the length of hospital stays.

The Unyvero Solution combines the necessary pathogen and resistance detection, consistent with internationally-recognized, clinical pneumonia treatment guidelines into a single test panel.

Results are available in less than **3 hours**, for earlier, confident treatment decisions.

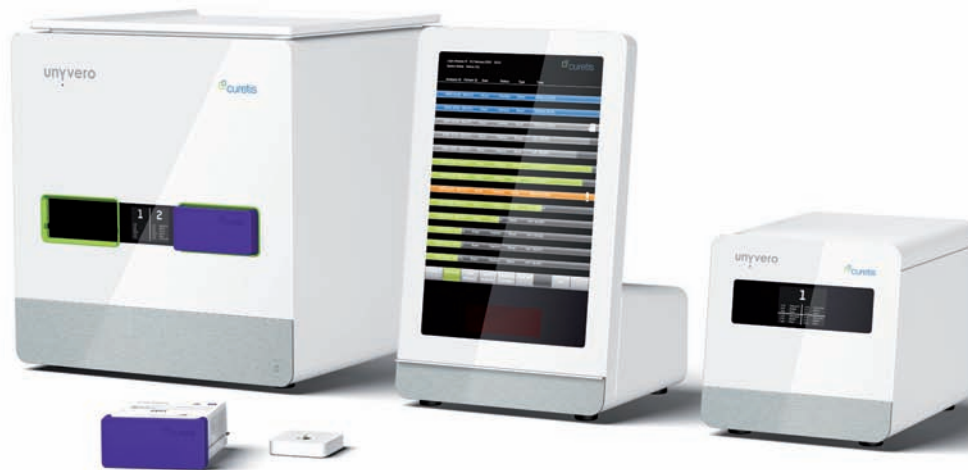


CULTURE-BASED METHODS ARE TOO SLOW, CONVENTIONAL MOLECULAR TESTING IS TOO CUMBERSOME

Microbial culture is the current standard for diagnosis of severe acute infections. However, it typically needs at least **2 to 5 days** to provide diagnostic information. Molecular methods can identify pathogens and resistances within a few hours. Unfortunately, for many critical applications, molecular testing is impractical: the test systems are complex, and need a special infrastructure and skilled operators. And, when it comes to severe acute infections this complexity is multiplied by the number of analytes necessary to test.

The Unyvero Solution helps overcoming these limitations

- Curetis designed the Unyvero Solution to
- cover the clinically relevant pathogens and resistances, for pneumonia as a first application
 - use any native sample material, and
 - provide a result **in less than 3 hours.**



THE UNYVERO SOLUTION – A SINGLE, EASY-TO-USE AND FAST SOLUTION FOR HEALTHCARE PROVIDERS THROUGHOUT THE HOSPITAL

The Unyvero Solution from Curetis integrates the whole molecular diagnostics process, and makes it suitable for use by a wide range of clinical personnel – even without a laboratory technician’s training.

Multiplexed testing of many analytes in a single run ensures comprehensive details on pathogens and antibiotic resistances to guide treatment with confidence.

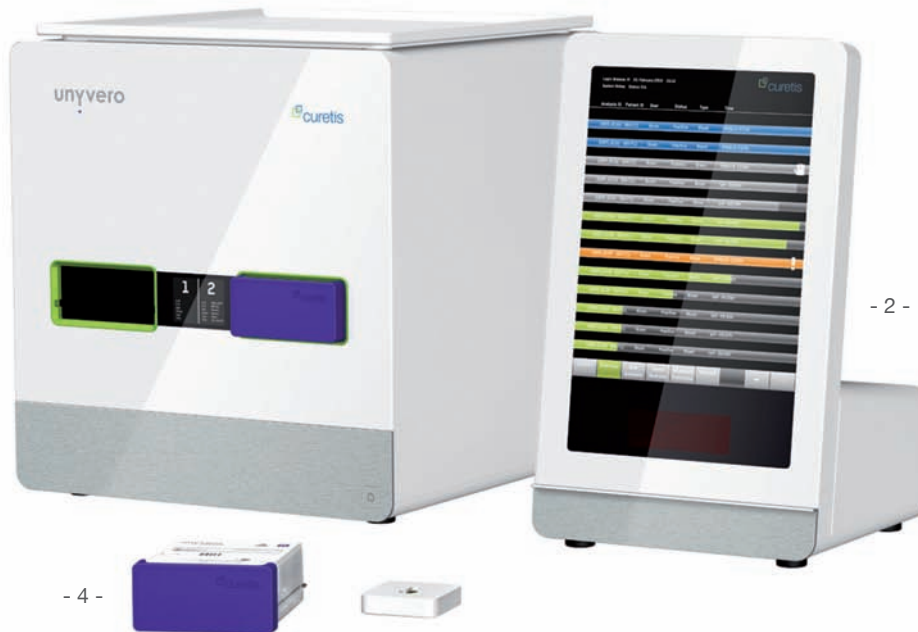
And, not least, the results are available within hours.

A solid foundation for the future

The first application is the detection of severe bacterial infections – particularly those acquired in a hospital – and related antibiotic resistances. However, the universal Unyvero platform is not limited to bacterial infections, but is suitable for other clinical applications too.

THE UNYVERO SOLUTION – A MINIMUM OF USER INTERACTION ENSURES EFFICIENCY AND REALIBILITY

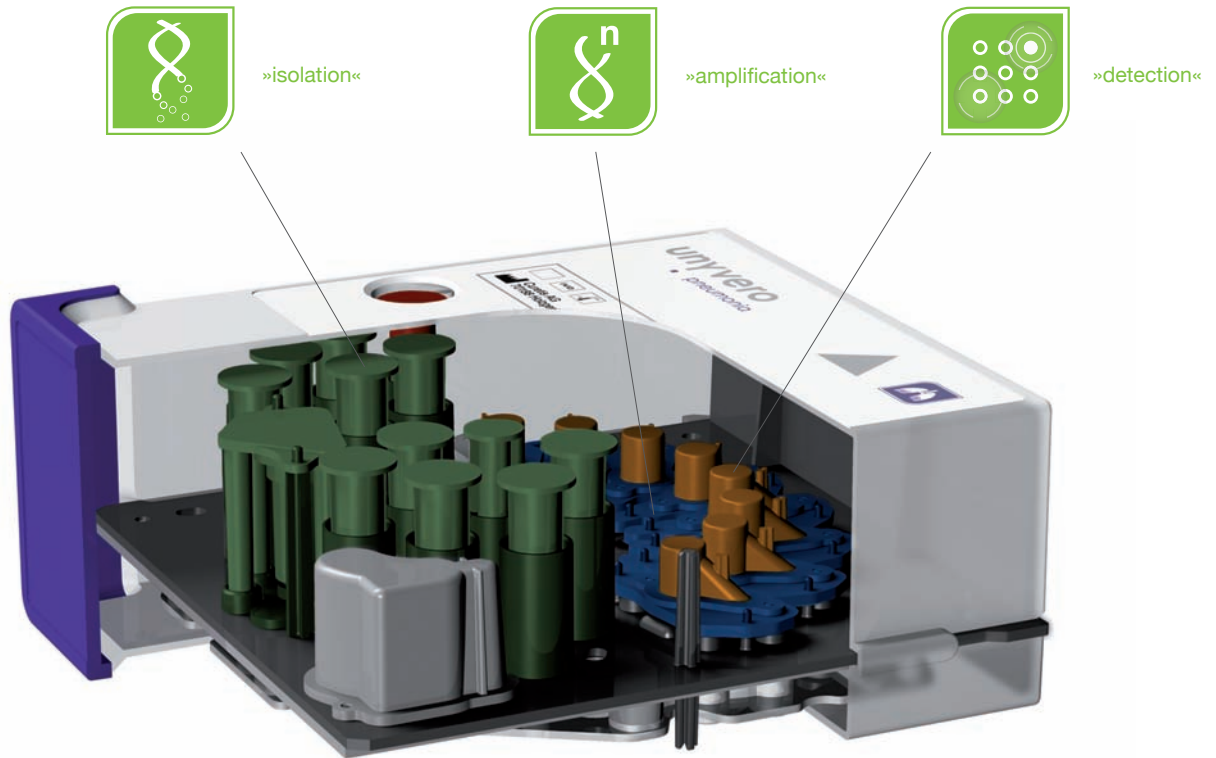
All analytical steps for sample preparation, DNA extraction, purification and amplification, and specific DNA detection are carried out by the Unyvero Solution, with minimal manual interaction. This fully integrated and automated approach ensures that the Unyvero Solution can be placed and used in non-molecular diagnostic laboratory environments, by staff without any special training, and still deliver consistent, high-quality results in **under 3 hours**.



- 1. Unyvero A50:**
Universal Analyzer
- 2. Unyvero C8:**
Intuitive User Cockpit
- 3. Unyvero L4:**
Universal Lysator
- 4. Unyvero Cartridges:**
Disposables for different applications

» JUST ADD A SAMPLE AND GET THE RESULTS «

THE UNYVERO SOLUTION – A UNIVERSAL CARTRIDGE INTEGRATES ALL MOLECULAR DIAGNOSTIC STEPS FOR SIMPLE HANDLING



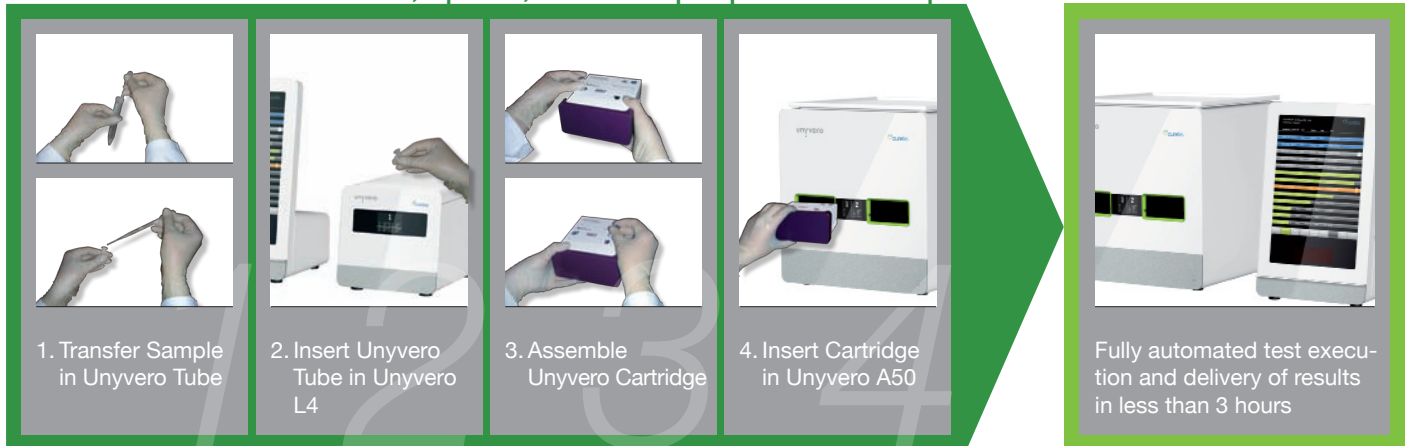
The Unyvero Solution integrates the necessary reagents into a sealed, single-use cartridge. Once you have introduced the sample, all further steps to prepare and analyse the sample take place inside the Unyvero Cartridge.

This makes handling simple, and eliminates the possibility of cross-contamination and the risk of biohazards. Built-in controls further ensure both safe operation and valid results.

THE UNYVERO SOLUTION – A NEW EASE OF USE IN MOLECULAR TESTING

a few, quick, manual preparation steps

results < 3h



fully automated, unsupervised analysis

The Unyvero Solution uses a versatile hardware platform for the complete analysis of selected disease marker panels, and the associated potential antibiotic resistances. The instruments control all the fluidic and reagent processing. This includes:

- The Unyvero L4 Lysator lyses and homogenizes a wide range of patient sample types.
- State-of-the-art DNA purification technology is used to isolate the pathogen DNA in the Unyvero A50 Analyzer.
- Purification is followed by specific amplification and detection of DNA sequences.
- To detect many analytes, 8 multiplexed PCRs run in parallel for detection with panel specific microarrays.

50 or more analytes can be detected simultaneously in a short time, from one patient sample, with excellent sensitivity and specificity levels.

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Product under development and not yet commercially available.