



D-LACTAM

An innovative in vitro diagnostic for the **rapid detection of bacterial infection** in biological samples

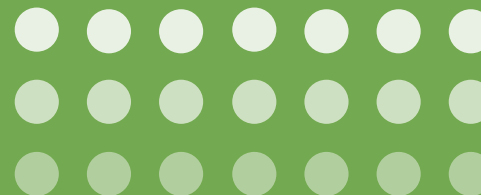
VALUE POTENTIAL OF D-LACTAM

D-LACTAM diagnostic kit is intended for the determination and quantification of D-lactate level in biological samples (CNS-/Pleural-/ascitic fluids, urine and blood serum and sterile solutions). The method is based on the enzymatic conversion of D-lactate into the pyruvate with a subsequent catalytic transformation of analytical target resulting in a colorimetric signal. The high level of D-lactate indicates the presence of bacteria in biological substrates.

D-LACTAM ASSAY allows early differential diagnosis of bacterial and/or viral diseases, but can also be used after an already started antibiotic therapy alike in general medicine and pediatrics and neurology, pulmonology, gastroenterology, urology, oncology and surgery. It is helpful in diagnosis and for a reasoned prescription of antibiotics and for correction of current antibiotic therapy.

If you have any questions, do not hesitate to contact our professional team to discuss your special needs in detail. Orders may be submitted by fax or email.

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D-LACTAM

- is a recently developed colorimetric assay that allows rapid quantification of D-lactate level directly in biological samples
- D-lactate can be determined in a variety of biological samples such as blood serum, urine, cerebrospinal fluid, pleural and ascitic fluids and bacterial suspensions
- the procedure is simple and rapid
- can be used by GPs, pediatricians, infectiologists, cardiologists, pulmonologists, dentists, surgical practice etc
- is an in vitro diagnostic for research purposes only



Motivation for use

- rapid detection and quantification of bacterial infection to start target-directed therapy
- finding the cause of inefficacy and optimizing of already initial therapy
- minimizing unreasonable antibiotic prescriptions and development of the antibiotic resistance

Advantages and unique features

- does not demand a bacterial culture - no bacteriological laboratory needed
- offers quick and reliable results (1.5 to 3 hours)
- rapid detection of bacteria
- differential diagnosis of bacterial and viral lesions of CNS

Testing principle

- a high level of D-lactate indicates the presence of bacteria in biological samples
- D-LACTAM allows quantification of D-lactate level photometrically
- the kit consists of four components (i.e. lithium D-lactate, buffer, enzymatic and substrate mixe) and needs only few additionally materials (i.e. microplate reader, clear flat-bottom 96-well plate, etc.)
- a standard kit allows testing of 8 samples and includes reliable controls

