



Bacterial Endotoxin Detection

COMPANY PROFILE

Dynamiker Biotechnology (Tianjin) Co.,Ltd is a comprehensive biomedical national high-tech enterprise, built by Dr. Zeqi Zhou from Harvard Medical School. It was established in March 2014, which is dedicated to R&D, production, clinical application and technical service of Invasive Fungal Disease (IFD) diagnosis and Bacterial Endotoxin testing kits. Dynamiker is the first brand of LAL reagent supplier in China. Dynamiker has established an international R&D and Production base, which is accredited by ISO13485. Till now, Dynamiker has 20 products approved by NMPA, and 52 products got CE marks. Our rich technology rises us in a high position in the global competition.

Gen 1: Kinetic Chromogenic LAL Assay

Gen 2: Gel Clot LAL Assay

Gen 3: Clinical Diagnostic Reagents

Dynamiker always put users' satisfaction the first priority. We will document users' circumstances and remain scheduled maintenance. Meanwhile, an emergency team will always stand by for any support.

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Kinetic Chromogenic LAL Assay

INTRODUCTION

This assay is normally used for quantitative determination of bacterial endotoxin content in human and animal injection drugs, biological products, and medical equipment.

Bacterial endotoxin can specifically activate factor C in Limulus reagent, activated factor C activates factor B, activated factor B then activates procoagulase, coagulase hydrolyzes the chromogenic substrate in the reaction, and produces free pNA (P-Nitroaniline) to cause absorbance changes, and the endotoxin concentration is quantified based on the dynamic detection solution absorbance change rate.

- The experiment requires 1.5 hours to produce a report.
- Store at 2-8°C. The product can be stored for 24 months before being unpacked.
- Microplate reader, vortex shaker, pipette, Endotoxin-free tip are available for order.
- Welcome to inquire us at marketing@dynamiker.com

All materials are included

Quantitative detection

High throughput

SPECIFICATIONS

Catalog No.	Sensitivity EU/ml	Tests/Kit	Kit Contents
XSF0596K-2	0.005-10EU/ml	96	4 main reagents, 2.6ml; 6 standards, 1.5ml; 3 Pyrogen-free water, 3ml; 4 reconstitution solutions, 3ml; 1 microplate, 96 wells



Gel Clot LAL Assay

■ INTRODUCTION

Gel Clot LAL reagent can indicate the bacterial endotoxin content according to the firmness of the gel formed by the agglutination reaction. This assay is normally used for qualitative or semi-quantitative determination of bacterial endotoxin content in human and animal injection drugs, biological products, and medical equipment.

This product is a lyophilized product of lysates of blood deformable cells of marine horseshoe crab, which contains Proclotting enzyme and Coagulogen that can be activated by bacterial endotoxins. In suitable conditions (temperature, pH, and no interfering substances), bacterial endotoxin can activate the Proclotting enzyme in the LAL reagent, causing the LAL reagent to agglutinate and form a gel.

- Single-test packaged in Vacuum tube, can be opened at any time as you need.
- Conforms to the Chinese Pharmacopoeia guidelines and United States Pharmacopeia, process standardly.
- Standard products, quality control products, and endotoxin-free water are available for order.
- Stored at 2-8°C, the product can be stored for 24 months before being unpacked.
- The reporting time of the experiment was 60±2 minutes.

■ SPECIFICATIONS

Catalog No.	Sensitivity EU/ml	ml/Vial	Tests/Kit
NJF01030	0.03	1.1	10
NJF01060	0.06		
NJF01125	0.125		
NJF01250	0.25		
NJF01500	0.5		



Gel Clot LAL Assay Accessories

2.1 Control Standard Endotoxin (CSE)

■ INTRODUCTION

Bacterial endotoxin standard are extracted from Escherichia coli (E.coliO111:B4), freeze-dried with lactose and polyethylene glycol as excipients, and their titer is calibrated based on the national standard bacterial endotoxin.

It normally will be used to

- Perform Limulus Reagent Sensitivity Recheck Test
- Perform Interference test,
- Stored at 2-8°C, the product can be stored for 24 months before unpacking.

This product is not only used in the gel method Limulus reagent series experiments but also in the colorimetric method Limulus reagent series experiments.

Serve as various positive controls.

■ SPECIFICATIONS

Catalog No.	Sensitivity EU/ml	Package Vials/Kit
XSF00004	10-100EU/vial	10



2.2 Bacterial endotoxin test water

INTRODUCTION

This product is made of purified water, it is sterile and endotoxin-free, with no interference with bacterial endotoxin test, and it is suitable for different brands of limulus reagent products. This product is high-quality water for the endotoxin inspection method in Chinese Pharmacopoeia.

SPECIFICATIONS

Catalog No.	Package
XSF00001	8ml/vial, 10 vials/Kit
XSF00002	250ml/vial
XSF00003	500ml/vial

INTENDED USE

1. Act as a negative control group
2. Dissolve and dilute CSE.
3. Dissolve and dilute samples



500mL/bottle
Catalog No.: XSF0003



8mL/bottle 10 bottles/box
Catalog No.: XSF0001



2.3 Endotoxin-free vials

INTENDED USE

These are endotoxin-free vials, used for the preparation and dilution of.

INTRODUCTION

This product has high air tightness and its transparency, allowing observation of contents from outside, and it has good pressure resistance and its uniform tube wall thickness. The product is made of environmentally friendly materials without toxic substances, and it is sterile and endotoxin-free.



SPECIFICATION

Catalog No.	Package
1904101	3ml/vial, 10 vials/Pack



2.4 Pyrogen-free Tube

INTRODUCTION

This product has high air tightness and its transparency, allowing observation of contents from outside, and it has good pressure resistance and its uniform tube wall thickness. The product is made of environmentally friendly materials without toxic substances, and it is sterile and endotoxin-free.

INTENDED USE

Used for preparation and dilution of standard product in Endotoxin tests.

SPECIFICATION

Catalog No.	Package
1904100	20 vials/Pack, 100 vials/Kit





Clinical Diagnostic Reagents



3.1

Fungus(1-3)-β-D-Glucan Assay

■ INTRODUCTION

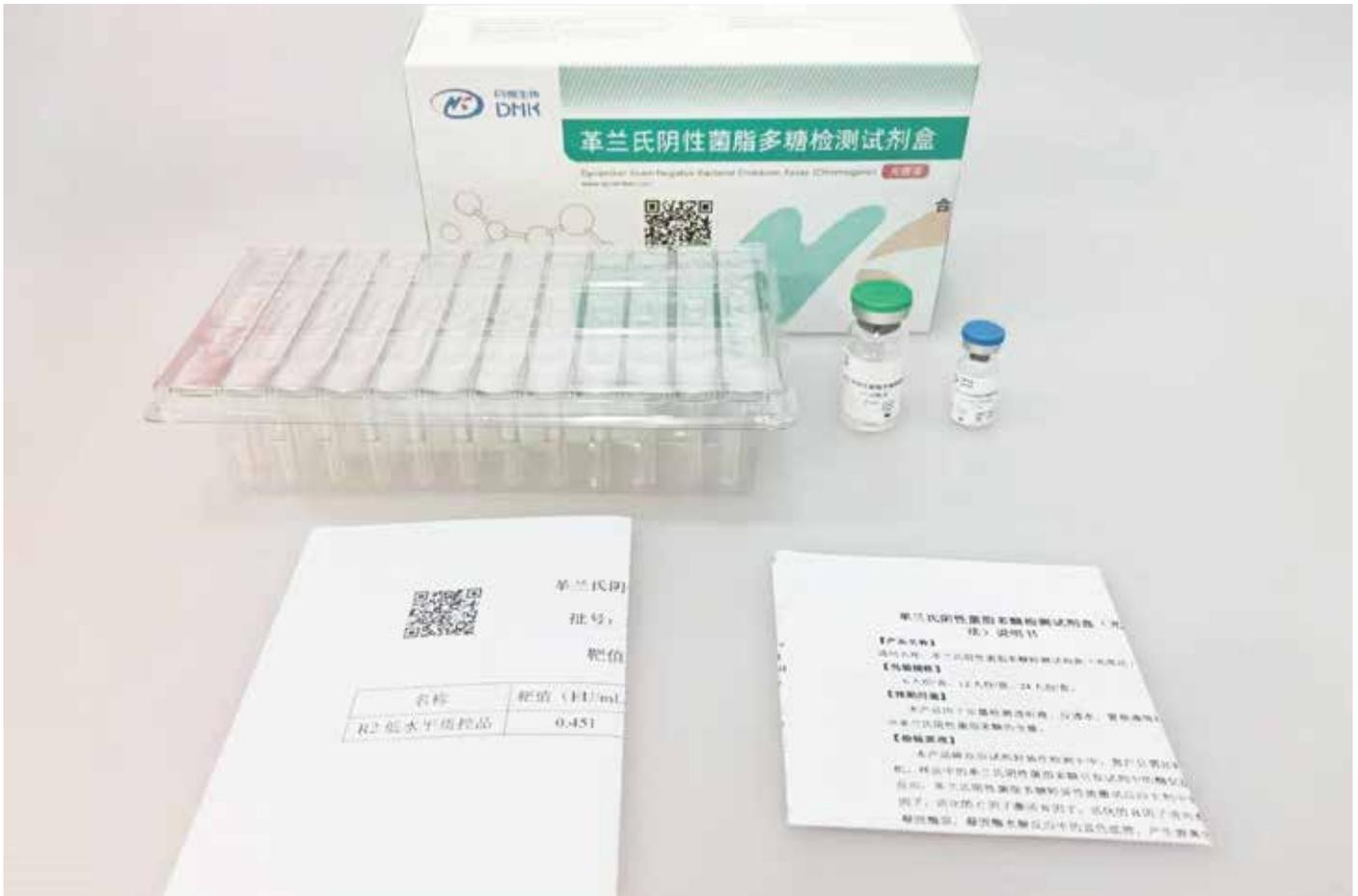
The Dynamiker Fungus (1-3)-β-D-Glucan Assay is based on pathways as below. The pre-treated sera are added into the Main Reagent which contains Factor G. Factor G is activated by (1-3)-β-D-Glucan and activated Factor G converts proclotting enzyme to clotting enzyme. The clotting enzyme hydrolyzes the substrate (Boc-leu-Gly-Arg-PNA) to release PNA. The absorbance is measured at 405nm kinetically. The concentration of (1-3)-β-D-Glucan is interpreted according to a standard curve.

(1-3)-β-D-Glucan is the main cell wall component of most fungi, such as Candida, Aspergillus and Fusarium, etc. and does not exist in bacteria, virus or human cells. Fungus (1-3)-β-D-Glucan Assay is based on spectrophotometry for the quantitative detection of (1-3)-β-D-Glucan in human serum. It offers a diagnostic reference for invasive fungal diseases.

- The kit can be stored for up to 24 months at 2-8°C.
- Dynamiker also provides IVD series products for Aspergillus, Candida and Cryptococcus, if you are interested, please contact us at marketing@dynamiker.com.

■ SPECIFICATION

Catalog No.	Tests/Kit	Time to get report	Content
DNK-1401-1	96	40 min	<ul style="list-style-type: none"> - Main Reagent: 4×2.6ml - Treatment Solution: 4×1.5ml - Standard: 5×1.5ml - Control: 5×1.5ml - Diluent: 4×8ml - Reconstitution Solution: 4×3ml - Breakable Microplate: 96 wells



3.2 Gram Negative Bacterial Endotoxin Assay

INTRODUCTION

The pretreated samples are added into the Main Reagent which contains Factor C and Factor B. Factor C is activated by LPS and activated C activate Factor B, activated Factor B converts proclotting enzyme to clotting enzyme. The clotting enzyme hydrolyzes the substrate (Boc-leu-Gly-Arg-PNA) to release PNA. The absorbance is measured at 405nm kinetically. The concentration of LPS is interpreted according to a standard curve.

This product is used for quantitative detection of Gram-negative bacterial Endotoxin (LPS) in dialysate, reverse osmosis water, replacement fluid and other samples.

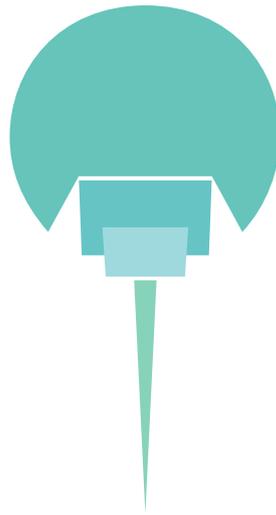
- The kit can be stored for up to 24 months at 2-8°C.

SPECIFICATION

Catalog No.	Tests/Kit	Time to get report	Content
DNK-1410-1	96	40 min	<ul style="list-style-type: none"> - Main Reagent: 4x2.6ml - Treatment Solution: 4x1.5ml - Standard: 5x1.5ml - Control: 5x1.5ml - Diluent: 4x8ml - Reconstitution Solution: 4x3ml - Breakable Microplate: 96 wells

Technology is life!

Quality is life!



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