

### LEADSPHERE® Proteinase K

LDG0001RG **Catalog Number Package** 50 tablets / Customized package

For full product information, images and publications, please visit our website.



### Overview

### Description

Proteinase K is a non-specific serine protease that belongs to the subtilisin family with an active site catalytic triad Asp39-His69-Ser224. It is useful for the general digestion of peptide bonds, consequently used in broad applications in the biology experiments such as isolation of genomic DNA and plasmid, isolation of RNA, inactivation of RNases, DNases, and enzymes in reactions. LEADSPHERE® Proteinase K sphere is competent in the digestion of samples in 300-400 μL, such as saliva. In addition, LEADSPHERE® Proteinase K is generated with an ISO13485 quality management system specifically for medical devices.

#### **Product Note**

Please fine-tune the input sample volume to find the optimal condition for your assay.

### Components

Package	Items	Quantity
50 tablets	LEADSPHERE® Proteinase K	50 tablets
	Proteinase K Diluent Buffer	1 vial (100 mL)

## **Specifications**

**Application** 

Sample preparation

**Reaction Condition** 

One tablet for one reaction, and one reaction can digest 16 µg BSA incubated with

Proteinase K for 1 hour at 37o C.

**Purity** 

>95% as determined by SDS-PAGE analysis.

**Form** 

Lyophilized

Tainan Headquarter

**Innovation & Research Center** 

**CLD Center** 



## Instruction

### **Shipping**

The product is shipped at Ambient Temperature.

### Stability & Storage

This product is stable after storage at:

 4-30°C for 12 months under sterile conditions from date of receipt.

Keep dry.

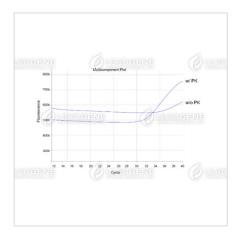
# **Image**



Lyophilized LEADSPHERE® Proteinase K

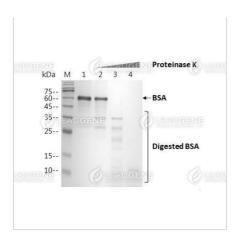


Lyophilized LEADSPHERE® Proteinase K



LEADSPHERE® Proteinase K pretreatment produces sensitive detection in RT-qPCR assay.





LEADSPHERE<sup>TM</sup> Proteinase K completely digests bovine serum albumin (BSA).
BSA was mixed with Proteinase K at 37 oC for an hour, and subsequently analyzed by SDS-PAGE. Lane 1. 2 μg of BSA Lane 2. 16 μg of BSA with 0.01 μg of Proteinase K Lane 3. 16 μg of BSA with 0.1 μg of Proteinase K Lane 4. 16 μg of BSA with 1 μg of Proteinase K

**Disclaimer:** For Research Use or Further Manufacturing Only.