



## Product Information & Manual

Information of other products is available at: [www.leadgenebio.com](http://www.leadgenebio.com)

### Leadgene® LEADSPHERE® Proteinase K

Cat no. LDG0001RG

#### Product Overview

##### Package component

Item	Content
LEADSPHERE® Proteinase K	50 tablets
Proteinase K Diluent Buffer	100 mL

#### 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.

#### Storage and Stability

- (1) Stored at 4-30°C and keep dry.
- (2) All reagents are stable for one year under proper storage conditions.

#### Procedure

##### Sample preparation:

- (1) Collect specimen (ex: saliva) 300-400 µL and gently mix with the lyophilized LEADSPHERE® Proteinase K for reconstitution.
- (2) Heat inactivated LEADSPHERE® Proteinase K at 95°C for 10 minutes.
- (3) Add 1500 µL of Proteinase K Diluent Buffer to achieve uniform distribution in the above reaction mixture. If you use our LEADSPHERE® Proteinase K the first time or establish a new primer set, please run a serial dilution in the sample preparation step by using Proteinase K Diluent Buffer in a range of 500-1500 µL.
- (4) Sample preparations may be scaled up or down proportionately.
- (5) Run PCR, qPCR, and RT-PCR by using the above sample.

#### Important notes

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

#### Disclaimer

This product is for research use only and is not intended for diagnostic use

### LEADGENE BIOMEDICAL, INC.

No.9, Ln. 147, Zhengbei 1st Rd., Yongkang Dist., Tainan City 710, Taiwan R.O.C. TEL: +886-6-2536677 FAX: +886-6-2531536

[www.leadgenebio.com](http://www.leadgenebio.com)