

# Product insert

## Protease K, lyophilised powder

For Research Use Only. Not for use in diagnostic procedures.

### Product overview

Protease K is provided as a lyophilised powder. It is sourced from *Pichia pastoris* cells with cloned gene encoding *Tritirachium album* endolytic protease.

One unit is defined as the enzyme activity that produces 1  $\mu\text{mol}$  of tyrosine per minute from casein at 37 °C, pH 7.5. The certificate of analysis provides specific unit values for individual lot numbers. Dry weight activity is  $\geq 30$  units/mg.

No DNase or RNase contamination is detected. Purity is  $\geq 95\%$  (Native-PAGE).

Protease K is most active at 55-60 °C, and functions optimally at 56 °C. A decrease in activity may be observed at temperatures above 60 °C. A suggested incubation would be 30 minutes at 56-60 °C.

When working in plates, we recommend incubating at 60 °C as heat transfer in plates is not optimal and it can take time until the sample(s) themselves reach 60 °C.

Please note that RNase and DNase can be digested by Protease K when added simultaneously. We recommend adding RNase to a sample first, incubating as required, before the Protease K is added and a subsequent incubation performed. Exact incubation times will need to be validated for your specific application. The enzyme can be completely inactivated through incubation at 95 °C for 10 minutes.

### Storage

Lyophilised Protease K should be stored at -20°C and is stable for 1 year when properly stored in its original, unopened container. Please refer to product label for exact expiry date.

### Ordering information

Cat no.	Description	Mass
NAP41061	Protease K, lyophilised power	10 mg
NAP41062	Protease K, lyophilised power	100 mg
NAP41063	Protease K, lyophilised power	1 g
NAP41064	Protease K, lyophilised power	100 g

### Safety information

The SDS for Protease K can be accessed via our web shop: [shop.biosearchtech.com](https://shop.biosearchtech.com).



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