

PCA DEPROTEINIZING ASSAY KIT

KB03027-100/200/400 Tests

DESCRIPTION AND USE

Proteins may interfere with some assays, affecting accuracy and sensitivity. When ultrafiltration cannot be done, other chemical removal alternatives can be considered. **BQC PCA Deproteinizing Kit** is recommended for the deproteinization of samples prior to assaying small molecules, glycogen, ATP, cAMP, glutathione, and antioxidants. This kit is not compatible with organic solvents, which will leave salt precipitates.

The **BQC PCA Deproteinizing Kit** ensures a protein removal efficiency over 99.3 % with very low sample dilution and includes a neutralizing solution to adjust the pH. **The volume of sample required per test is 90 μ L.**

MATERIALS SUPPLIED

Item	No. Tests	Quantity
PCA Solution	100	1
	200	2
	400	4
Neutralizing Solution	100	1
	200	2
	400	4

STORAGE AND STABILITY

On receipt store kit components at RT. Do not use after the expiration date stated on the packaging.

RELATED PRODUCTS

Product	Reference
Bradford Protein Assay Kit	KB03003
ABTS Antioxidant Capacity Assay Kit	KF01002

ASSAY PROTOCOL

- 1 **10 min** Place the solutions on ice to ensure they are cold
- 2 In a microtube, **mix** your sample with the **PCA Solution** in a **3:1 ratio**. For example: 90 μ L of sample with 30 μ L of PCA Solution.
- 3 **1 min** Vortex
- 4 **15 min** Keep microtubes on ice
- 5 **10 min** **Centrifuge** at 10000 x g at 4 $^{\circ}$ C
- 6 **Collect the supernatant** in other microtube. If proteins are required, collect the pellet, and freeze at -80 $^{\circ}$ C
- 7 Add the **Neutralizing Solution** at a volume equal to **35 % of the supernatant recovered volume**. For example: 17.5 μ L of Neutralizing Solution per 50 μ L of sample
- 8 **Check that the pH is neutral** with a pH paper test. If necessary, adjust to pH 7 with the Neutralizing Solution.
- 9 Assay directly or freeze at -80 $^{\circ}$ C until the day of the assay

For future experiments and calculations consider that the sample is diluted throughout the deproteinizing assay protocol. Consider the dilution factor performed when analyzing the results.

FOR RESEARCH USE ONLY