TCA DEPROTEINIZING ASSAY KIT

KB03026-100/200/400 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 TCA Deproteinizing Kit** is recommended for the deproteinization of samples prior to assaying low molecular weight metabolites. The precipitated proteins will remain nonfunctional.

The **BQC TCA Deproteinizing Kit** ensures a protein removal efficiency over 99 % with very low sample dilution that includes a neutralizing solution to adjust the pH. **The volume of sample required per test is 150 µL** (samples with **low protein concentration**) **or 90 µL** (samples with **high protein concentration**)

MATERIALS SUPPLIED

Item	No. Tests	Quantity
TCA 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 **TCA Solution** For samples with **high protein concentration** use a **6:1 ratio**. For example: 90 µL of sample with 15 µL of TCA Solution. For samples with **low protein concentration** use a **10:1 ratio**. For example: 150 µL of sample with 15 µL of TCA Solution.
3	1 min	Vortex
4	15 min	Keep microtubes on ice
5	10 min	**Centrifuge** at 10000 x g at 4 °C
6		**Collect the supernatant** in other microtube. If proteins are required, collect the pellet, and freeze at -80 °C
7		Add **10 µL** of the **Neutralizing Solution.**
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 °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.

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