

T-PER[®] Tissue Protein Extraction Reagent

78510

0848.2

Number	Description
78510	T-PER[®] Tissue Protein Extraction Reagent , 500 ml, contains a proprietary detergent in 25 mM bicine, 150 mM sodium chloride; pH 7.6

Storage: Store product at room temperature.

Introduction

T-PER[®] Tissue Protein Extraction Reagent is for total protein extraction from tissue samples. The simple composition of this reagent provides versatility because components such as protease inhibitors, salts, reducing agents or chelating agents may be added to the reagent before proceeding with cell lysis. The prepared cell lysate may be used for reporter assays (e.g., luciferase, β -galactosidase, chloramphenical acetyltransferase), protein kinase assays (e.g., PKA, PKC, tyrosine kinase), immunoassays (e.g., Western blots, ELISAs, RIAs) and protein purifications.

T-PER[®] Reagent is mild, requires minimal amount of detergent for cell lysis, and the detergent is dialyzable. Additionally the reagent is compatible with standard protein assays such as BCA[™] Protein Assay (Product No. 23225) and Coomassie Plus–The Better Bradford[™] Assay Kit (Product No. 23236).

Procedure for Tissue Lysis

1. If desired, add protease inhibitors to the T-PER[®] Reagent just before use.
2. Weigh tissue samples. Use a ratio of ~1 g of tissue to 20 ml T-PER[®] Reagent. Use a smaller volume of T-PER[®] Reagent if a more concentrated protein extract is required.
3. Add the appropriate amount of T-PER[®] Reagent to the tissue sample and homogenize.
4. Centrifuge the sample at $10,000 \times g$ for 5 minutes to pellet cell/tissue debris.
5. Collect supernatant and continue with downstream analysis or further purification.

Related Pierce Products

25200-25244	Precise[™] Protein Gels (see catalog or web site for a complete listing)
89835	DNase I , 5000 units
78410	Halt[™] Protease Inhibitor Cocktail Kit
78415	Halt[™] Protease Inhibitor Cocktail Kit, EDTA-Free
78501	M-PER[®] Mammalian Protein Extraction Reagent , 250 ml
78248	B-PER[®] Bacterial Protein Extraction Reagent , 500 ml
89826	Mem-PER[®] Eukaryotic Membrane Protein Extraction Reagent Kit
78990	Y-PER[®] Yeast Protein Extraction Reagent , 500 ml
23236	Coomassie Plus –The Better Bradford[™] Assay Kit
23225	BCA[™] Protein Assay Kit

Product References

Jepsen, K.H., *et al.* (2002). A syndrome of joint laxity and impaired tendon integrity in lumican and fibrodulon deficient mice. *J. Biol. Chem.* **277**:35532-40.

Lukashevich, I. S., *et al.* (2003). Arenavirus-mediated liver pathology: acute lymphocytic choriomeningitis virus infection of *Rhesus macaques* is characterized by high-level interleukin-6 expression and hepatocyte proliferation. *J. Virol.* **77**:1727-37.

Sheng, J.G., *et al.* (Disruption of corticocortical connections ameliorates amyloid burden in terminal fields in a transgenic model of Abeta amyloidosis. *J. Neurosci.* **22**(22):9794-9.

BCA™ Technology is protected by U.S. Patent # 4,839,295.

B-PER® Technology is protected by U.S. Patent # 6,174,704.

Current versions of all product instructions are available at www.piercenet.com. For a faxed copy call 800-874-3723 or contact your local distributor.

©Pierce Biotechnology, Inc., 4/2005. Printed in the USA.