

PRODUCT DATA SHEET

Pierce Universal Nuclease for Cell Lysis

Applications	Dilution
Reduction of viscosity in cell lysates	0.1µL per 1mL of lysate

Details	
Catalog number:	88700
Lot number:	00492617
Size:	5kU, 20µl
Host Organism:	<i>E. Coli</i>
Non-specific protease activity:	Non-detectable
Endotoxin:	Non-detectable
Purity:	≥99%
Concentration:	250 units/µL
Storage buffer:	50% (v/v) glycerol containing 20 mM Tris HCl, pH 8.0, 2 mM MgCl ₂ , and 20 mM NaCl

Product specific information:
Pierce Universal Nuclease for Cell Lysis can be used with B-PER to eliminate cell lysate viscosity. Add 25U, or 0.1µL, of Pierce Universal Nuclease for Cell Lysis to 1mL of cell lysate and incubate at room temperature for 10-15min.

References

- 1) Eaves, G.N. and Jeffries, C.D. (1963) J. Bacteriol. 85, 273–278.
- 2) Nestle, M. and Roberts, W.K. (1969) J. Biol. Chem. 244, 5213–5218.
- 3) Miller, M.D., Tanner, J., Alpaugh, M., Benedik, M.J. and Krause, K.L. (1994) Nat. Struct. Biol. 1, 461–468.
- 4) Friedhoff, P., Gimadutdinow, O. and Pingoud, A. (1994) Nucleic Acids Res 22, 3280-3287.
- 5) Ball, T.K., Suh, Y. and Benedik, M.J. (1992) Nucleic Acids Res. 20, 4971–4974.
- 6) Ball, T.K., Saurugger, P.N. and Benedik, M.J. (1987) Gene 57, 183–192.

General information
Pierce Universal Nuclease for Cell Lysis is an extracellular nuclease originally derived from *Serratia marcescens* that was genetically engineered to be expressed in *E. Coli*. This highly active endonuclease degrades all forms of RNA and DNA, has high specific activity, and has increased thermostability compared to other nucleases. Pierce Universal Nuclease for Cell Lysis is structurally composed of two identical 30kDa subunits. This enzyme can be used in multiple applications however, the most common use is to reduce viscosity of cell lysates. Pierce Universal Nuclease for Cell Lysis is supplied at a concentration of 250 units/µL and at a purity of ≥99% and is free of any measurable protease activity.

Related Products:

78243	B-PER® Bacterial Protein Extraction Reagent, 165mL
90084	B-PER® Bacterial Protein Extraction Reagent, 250mL
78248	B-PER® Bacterial Protein Extraction Reagent, 500mL
78266	B-PER® Reagent (in phosphate buffer)
78260	B-PER® II Bacterial Protein Extraction Reagent (2x)
78998	Y-PER® Plus Dialyzable Yeast Protein Extraction Reagent, 25mL
78999	Y-PER® Plus Dialyzable Yeast Protein Extraction Reagent, 500mL
78990	Y-PER® Yeast Protein Extraction Reagent, 500mL
78991	Y-PER® Yeast Protein Extraction Reagent, 200mL
89802	I-PER® Insect Cell Protein Extraction Reagent

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No other warranties, express or implied, are granted, including without limitation, implied warranties of merchantability, fitness for any particular purpose, or non infringement. Buyer's exclusive remedy for non-conforming Products during the warranty period is limited to replacement of or refund for the non-conforming Product(s). There is no obligation to replace Products as the result of (i) accident, disaster or event of force majeure, (ii) misuse, fault or negligence of or by Buyer, (iii) use of the Products in a manner for which they were not designed, or (iv) improper storage and handling of the Products.