

Product Specification

Product Name:	Protease Inhibitor Cocktail
Product Code:	BS380, BS381, BS382, BS384, BS386
Size:	1ml

Component	BS380	BS381	BS382	BS384	BS386
Application	Bacterial Cells (EDTA Free)	Bacterial Cells (with EDTA)	Fungal / Yeast Cells	Plant Cells	Mammalian Cells
PMSF	100mM	100mM	100mM	200mM	100mM
EDTA		100mM			
Bestatin	2mM	2mM		2mM	1mM
Pepstatin A	0.3mM	0.3mM	2.2mM	1mM	1.5mM
E-64	0.3mM	0.3mM	1.4mM	1mM	1.4mM
1,10-PNTL			500mM	500mM	
Aprotinin				0.08mM	0.08mM
Leupeptin				1mM	1mM

*PNTL = Phenanthroline.

Procedure:

- For BS380 and BS381, add 4ml deionized water before use; and 1ml of this solution is recommended for the inhibition of the protease found in 20ml of the cell lysate from 4g (wet weight) of *E. coli* cells. It may be necessary to increase the concentration of inhibitor.
- 1ml of the cocktail solution of BS382 is recommended for the inhibition of protease activity found in 100ml of cell lysate from 20g (wet weight) of *Saccharomyces cerevisiae* cells.
- 1ml of the cocktail solution of BS384 is recommended for the inhibition of protease activity found in 100ml of cell lysate from 30g (wet weight) of various plant tissues.
- 1ml of the cocktail solution of BS386 is recommended for the inhibition of protease found in 100ml of cell lysate from 20g (wet weight) of bovine liver or 10ml of cell lysate obtained from CHO cells (grown on DMEM with 10% FCS) at a cell density of 10^8 cells per ml.

Notes:

- The protease inhibitor may become separated out when stored at -20°C .
- Since not all organisms contain the same levels of endogenous proteases, it may be necessary to adjust the concentration of inhibitors in some occasions.

Caution:

PMSF is harmful; it is extremely toxic and irritating to eyes and skin. Wear eye and hand protection to keep the solution containing PMSF away from skin and eyes. THESE PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL USE.

Rev 0

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Test Items

Specifications

Functional Test

Passes

Storage Condition: Store cocktail at -20°C. Cocktail is dissolved in DMSO containing little deionized water. The cocktail may form crystals. If there are crystals, place it at 18 – 25°C for 5 minutes.

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