

101Bio Protein Solubilization Reagent for MS

Cat. #: P5W11 (2 ml)

Shipping and Storage: Ship at ambient temperature and stored at RT.

Shelf Life: 12 months

Product Description:

This reagent is formulated for dissolving protein pellets extracted using protein kits (such as 101Bio Cat.#: P503, P511, P513, P518 and P523 kits). The solubilized proteins are denatured due to the presence of SDS and can be used for trypsin digestion and for subsequent mass spectrometry analysis. This product is for research use only.







Product Contents (store at RT)

Component	Amount
101Bio Protein Solubilization Reagent for MS	2 ml

Protocol:

1. Add proper amount of reagent to protein pellet derived from above kits (Cat.#: P503, P511, P513, P518 and P523 kits) or other methods. The volume used depends on the size of the pellet and protein concentration required for downstream experiment.
2. As a starting point, resuspend the protein pellet in 10-20 μ l protein solubilization reagent and pipetting up and down gently (try to avoid bubbles). For trypsin digestion, add proper amount of trypsin digestion buffer of your choice (for example, 50 mM ammonium bicarbonate, pH.8.0) to solubilized protein solution. The ratio between solubilized protein to trypsin digestion buffer is 1 to 6-8. For example, if 10 μ l protein solubilization reagent is used 60-80 μ l buffer should be added. BCA assay is recommended for determination of protein concentration.
3. Above diluted protein can be used directly for trypsin digestion. Usually, protein concentration of 1 μ g/ μ l is used for this purpose. After completion of the digestion, SDS present in the sample can be easily and rapidly removed by 101Bio SDS-Remover (Cat# P5W12). After SDS removal, the sample can be cleaned up by C-18 SPE and used for LC-MS/MS analysis.

Related products

Cat.#	Kit Name	Application	Protein Status	Minute
P501	Total protein kit	cells  total protein	denatured / native	1 ~ 8
P502	Total protein kit	tissues  total protein	denatured / native	1 ~ 8
P503	Membrane protein kit	cells / tissues  membrane protein	native , detergent-free	20 ~ 45
P504	Nuclear protein kit	cells / tissues  nuclear & cytosol protein	native	6 ~ 8
P505	Detergent-free kit	cells  total protein	denatured / native	5 ~ 8
P506	Detergent-free kit	Tissues  total protein	denatured / native	5 ~ 8

P507	Mitochondria kit	cells / tissues	➡	mitochondria	native, detergent-free	25 ~ 30
P508	Plant total protein	plant tissues	➡	total protein	denatured/native	5 ~ 8
P510	Plant detergent-free	plant tissues	➡	total protein	native	6 ~ 8
P511	Plant chloroplast kit	plant tissues	➡	intact chloroplast		5
P518	Plant Microsomal Membrane	plant tissues	➡	microsomal membrane	native	1 hr
P512	Bacteria total protein	bacteria	➡	total protein	denatured	2 ~ 3
P513	Nuclear envelope kit	cells	➡	nuclear envelope	native	< 45
P514	Histone/DNA binding protein	cells	➡	histone & dna binding protein	denatured	< 10
P515	Thick cell wall microbes	microbes	➡	total protein	denatured / native	< 10
P516	Detergent-free thick cell wall	microbes	➡	total protein	denatured / native	10
P517	Yeast Mitochondria	yeast	➡	mitochondria	native	60
P518	Plant Microsomal Membrane	plant	➡	microsomal membrane	native	60
P519	Gel slice recovery kit	PAGE gel	➡	protein	denatured / native	10 ~ 20
P521	Hair & nail protein kit	hair, nail	➡	protein	denatured	5 min. hands on
P522	Adipose protein kit	adipose	➡	total protein	denatured / native	20
P523	Adipose fractionation	adipose	➡	water soluble/insoluble protein	native	40
P524	Nuclei isolation kit	cells / tissues	➡	intact nuclei	native, detergent-free	20
P525	FFPE protein kit	FFPE tissues	➡	protein	denatured	60
P528	Endosome isolation kit	cells / tissues	➡	endosome	denatured	20 min. hands on
P529	Adipose nuclei isolation kit	adipose tissues	➡	nuclei & cytosol	native	30

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