

## DATA SHEET

**Protein Extraction and Trypsin Digestion for Mass Spectrometry Analysis of FFPE Tissue Proteins****TISSUE PREPARATION AND PROTEIN EXTRACTION**

The straightforward de-paraffinization protocol and materials included in the FFPE-FASP Protein Digestion Kit make it easy to begin preparing biobank tissue proteins for analysis by mass spectrometry. Protein extraction using the FFPE-FASP Kit begins by chemically reversing the cross-links formed during tissue preservation.

**UNIVERSAL SAMPLE PREPARATION WITH FASP**

Filter-Aided Sample Prep (FASP) materials, also included in the FFPE-FASP Kit, enable you to perform Universal Sample Preparation on proteins extracted from biobank tissue samples in a manner similar to the method described by Ostasiewicz, Zielinska, Mann, and Wisniewski<sup>1</sup>. The principal features of this method are unbiased extraction, complete solubilization, and highly efficient digestion. The resulting peptide filtrate is free of detergents, large molecules and other substances that would interfere with analysis by mass spectrometry.

**FFPE-FASP RESEARCH**

An extensive, quantitative mass spectrometry comparison found no significant differences between the proteomes of fresh and FFPE tissues processed using a similar FFPE-FASP protocol.<sup>1</sup> Proteins, peptides, and post-translational modifications were quantitatively preserved. Results were unaffected by hematoxylin staining, laser capture microdissection, or tissue storage time.

**REFERENCE**

(i) Proteome, phosphoproteome, and N-glycoproteome are quantitatively preserved in formalin-fixed paraffin-embedded tissue and analyzable by high-resolution mass spectrometry. Ostasiewicz P, Zielinska DF, Mann M, Wiśniewski JR. J Proteome Res. 2010 Jul 2; 9(7): 3688-700.

**ORDERING INFORMATION**

To order the FFPE-FASP Protein Digestion Kit, visit [www.proteindiscovery.com](http://www.proteindiscovery.com) to request a quote, or contact Protein Discovery, Inc. by phone, fax, or e-mail.

(T) 865.521.7400 / (TF) 866.670.9038 / (F) 865.521.3548  
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DESCRIPTION	PART NUMBER
FFPE-FASP Protein Digestion Kit	44255
Contains sufficient materials for eight digestions.	