

Sample clean-up: Plant-specific compounds	
Sample type: Plant	Method: Solvent extraction

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Plant-specific compounds such as tannins, lignins, and chlorophyll can cause severe disruption of electrophoresis, in particular IEF.

#### Methods to remove polysaccharides from sample:

Organic solvent extraction/precipitation: acetone and/or TCA/acetone precipitation efficiently removes these interfering compounds present in plants and enable subsequent electrophoresis.

#### Clean up: Reference

1. J. Jin, et. al., Development of Diagnostic Biomarkers for Diabetic Retinopathy at Early Stages Using Quantitative Proteomics (2015), Journal of Diabetes Research
2. Paolo Lucci, et. al., Current Trends in Sample Treatment Techniques for Environmental and Food Analysis DOI: 10.5772/47736
3. Erde, J, et. al, FASP (eFASP) to increase proteome coverage and sample recovery for quantitative proteomic experiments. J. Proteome Res. 2014
4. J. Jin, et. al., Analysis of Differential Proteomes of Induced Pluripotent Stem Cells by Protein-Based Reprogramming of Fibroblasts (2010), Journal of Proteome Research
5. <http://www.bio-rad.com/ko-kr/applications-technologies>