

Technical Datasheet

Analysis Name:	Residual Intact Protein by LDS-PAGE		
Method Number:	LI-08.012 WI		
Scope of Application:	An in-house LDS-PAGE (lithium dodecyl sulphate - polyacrylamide gel electrophoresis) method for the detection whey-based moderately or partially hydrolysed products.		
Description:	Samples are resuspended in water (if needed), cleaned by filtration or centrifugation, denatured with lithium dodecyl sulphate (LDS) at 95 °C, reduced by dithiothreitol (DTT), and run on a discontinuous NuPAGE [™] 4 % to 12 % Bis-Tris gel using MES buffer near neutral pH. Proteins are concentrated in the stacking gel and separated according to their molecular weight in the separating gel. Following separation, gels are fixed and proteins bands are visualised by silver staining.		
Sample Weight Required:	Original finished product container, or 50g if your raw material is in bulk. Sample must be stored in a sealed container. Portion received for analysis must be representative of entire sample		
Method Reference:	In-house method		
Analytical Platform:	Electrophoresis Gel		
Special Information:	Results delivered by this method are expressed as a binary result (detected/not detected). This method can also provide supplementary information related to the relative concentrations of residual intact proteins, but this is only meant to guide discussions and not to be reported as a result.		

Analyte	Alias	Unit of Measure	Limit of	Reproducibility
Reported			Quantification	
Protein Bands		Not	STC <200 mg/kg	N/A
		Detected/Detected		