NQAC
Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Reactive & Blocked Lysine-Furosine Method

Method Number: LI-00.564

Scope of Application: Raw materials and finished products.

Description: Hydrolysis of proteins with 6N hydrochloric acid at 110 °C. Evaporation of an aliquot of hydrolyzed sample and then reconstitution with dilute hydrochloric acid. Determination of Lysine and furosine by derivatization with 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate (AQC) using the AccQ•Tag Ultra Method (Waters Corporation, Milford, MA, USA). Derivatized amino acids are separated using reversed phase UHPLC with UV detection at 260 nm.

Sample Weight Required: 50 g

Analytical Platform: UPLC

Analyte Reported	Unit of Measure	Limit of Quantification	Reproducibility
Furosine	g/16 g N	0.05	30%
Lysine	g/16 g N	0.05	30%
Reactive Lysine	g/16 g N	0.05	
Lysine as DFL	g/16 g N	0.05	
Blocked Lysine	%	0.05	

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