

Technical Datasheet

Analysis Name: Tropane Alkaloids by LC-MS/MS

Method Number: LI-00.027

Scope of Application: Cereals and cereals-based products, oil, fruit/vegetable, milk.

This method cannot be used to analyze any spices. (Use

method LI-00.013 to obtain results on spices.)

Description: In-house method for the quantitative determination of two

Tropane Alkaloids, namely atropine and scopolamine, in cereals and cereals-based products oil, fruit/vegetable, milk by liquid chromatography-tandem mass spectrometry (LC-MS/MS).

Required:

Sample Weight Minimum 100 g

Method Reference: [1] Food Safety Brief on Tropane Alkaloids (2017)

[2]"Foods of plant origin - Determination of pesticide residues

using GC-MS and/or LC-MS(/MS) following acetonitrile extraction/partitioning and clean-up by dispersive SPE –

QuEChERS method". European Committee for Standardisation

(CEN), EN 15662:2008 (2008).

[3] SANTE/11813/2017. Guidance document on analytical quality control and method validation procedures for pesticide

residues and analysis in food and feed (2017).

Analytical Platform: LC/MS/MS

6625 Eiterman Rd, Dublin, OH 43017

Analyte	Alias	Unit of	Limit of	Reproducibility
Reported		Measure	Quantification	
Atropine	Mixture of (-)-hyoscyamine	μg/kg	0.5 (1 for oil)	≤20%
	and (+)-hyoscyamine			
Scopolamine	(-)-scopolamine	μg/kg	0.5 (1 for oil)	≤20%