



NQAC

Nestlé Quality Assurance Center
Dublin

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).

Sample Weight Required: 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

Special Information: A representative sample should have been sent to the laboratory. It should not have been damaged or changed during transport or storage. Store the samples in the laboratory at room temperature until analysis unless otherwise mentioned

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