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Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Ergot Alkaloids by LC-MS/MS

Method Number: LI-00.009

Scope of Application: The method has been validated on raw cereals (wheat, corn, rice, barley, rye, oat, triticale, millet, sorghum and spelt), infant cereals, whey protein powder and cereal-based baby foods.

Description: An in-house method for the quantitative determination of 12 ergot alkaloids and their sum (Ergot Alkaloids Total) in whey protein powder, cereals and cereal-based products by liquid chromatography tandem mass spectrometry (LC-MS/MS).

Sample Weight Required: A representative sample (minimum 500 g) should have been sent to the laboratory.

Method Reference: [1.Nestlé Food Safety Brief – Ergot Alkaloids \(2018\).](#)
2.EFSA (European Food Safety Authority). Arcella D, Gomez Ruiz JA, Innocenti ML and Roldan R, 2017. Scientific report on human and animal dietary exposure to ergot alkaloids. EFSA Journal 2017; 15(7):4902, 53 pp.
Available from <https://doi.org/10.2903/j.efsa.2017.4902>
[3.Commission Regulation \(EC\) No 401/2006 of 23 February 2006 laying down the methods of sampling and analysis for the official control of the levels of mycotoxins in foodstuffs.](#)
<http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32006R0401&from=EN>

Analytical Platform: LC-MS/MS

Special Information: The sample should not have been damaged or changed during transport or storage. Samples should be stored in air-tight containers and protected from light.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Ergocornine	None	µg/kg	0.5 µg/kg	≤30%
Ergocorninine	None	µg/kg	0.5 µg/kg	≤30%



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Ergocristine	None	µg/kg	0.5 µg/kg	≤30%
Ergocristinine	None	µg/kg	0.5 µg/kg	≤30%
Ergocryptine	None	µg/kg	0.5 µg/kg	≤30%
Ergocryptinine	None	µg/kg	0.5 µg/kg	≤30%
Ergometrine	None	µg/kg	0.5 µg/kg	≤30%
Ergometrinine	None	µg/kg	0.5 µg/kg	≤30%
Ergosine	None	µg/kg	0.5 µg/kg	≤30%
Ergosinine	None	µg/kg	0.5 µg/kg	≤30%
Ergotamine	None	µg/kg	0.5 µg/kg	≤30%
Ergotaminine	None	µg/kg	0.5 µg/kg	≤30%
Ergot Alkaloids Total	None	µg/kg	6 µg/kg	≤30%