

## List of CEN, EN & ISO methods & general requirements for plant toxin analysis in food and feed

### Standards must be purchased from CEN

Matrix	Plant toxin(-s)	Method / link	Description
Feed materials & compound feed	atropine scopolamine ergocornine ergocorninine ergocristine ergocristinine $\alpha$ -ergocryptine $\alpha$ -ergocryptinine ergometrine ergometrinine ergosine ergosinine ergotamine ergotaminine	<a href="#">EN 17256:2019</a>	Animal feeding stuffs: Methods of sampling and analysis - Determination of ergot alkaloids and tropane alkaloids in feed materials and compound feeds by LC-MS/MS
Cereals & cereal products	ergocornine ergocorninine ergocristine ergocristinine $\alpha$ -ergocryptine $\alpha$ -ergocryptinine ergometrine ergometrinine ergosine ergosinine ergotamine ergotaminine	<a href="#">EN 17425:2020</a> (approved)	Foodstuffs - Determination of ergot alkaloids in cereals and cereal products by dSPE clean-up and HPLC-MS/MS
Animal feeding stuffs	pyrrolizidine alkaloids	CEN/TC 327 <a href="#">(WI=00327113)</a> (under drafting)	Animal feeding stuffs: Methods of sampling and analysis - Determination of pyrrolizidine alkaloids in animal feeding stuff by LCMS/MS
Animal feeding stuffs	gossypol	CEN/TC 327 <a href="#">(WI=00327112)</a> (under approval)	Animal feeding stuffs: Methods of sampling and analysis - Determination of gossypol in cotton seed and feeding stuff by LC-MS/MS
Animal feeding stuffs	gossypol	<a href="#">ISO 6866:1985</a>	Animal feeding stuffs -- Determination of free and total gossypol
Foodstuffs	phomopsin A	<a href="#">EN 17252:2020</a>	Foodstuffs - Determination of phomopsin A in lupin seeds and lupin derived products by LC-MS/MS
Oilseeds	erucic acid	<a href="#">EN ISO 17059:2019</a>	Oilseeds - Extraction of oil and preparation of methyl esters of triglyceride fatty acids for analysis by gas chromatography (Rapid method)
Poppy seeds, bakery products	Opium alkaloids: Morphine, Codeine, ...	Not available yet	
Cassava, almonds, linseed etc.	Cyanogenic glycosides: amygdalin, neolinustatin, linustatin,	Not available yet	

	prunasin, lotaustralin, linamarin		
Hemp derived food, food of animal origin	Tetrahydrocannabinol	Not available yet	
Potatoes, peppers, paprika, aubergines	Calystegines: A3, A5, B1, B2, B3, B4	Not available yet	
Potatoes, ...	Glycoalkaloids: solanine, chaconine, ...	Not available yet	
Herbal products	Quinolizine alkaloids: Lupinine, ...	Not available yet	
Honey	Grayanotoxins: I, II, III, IV, ...	Not available yet	
...			