Dienstverleningsactiviteiten

Services and contract work food.analysis@UGent.be

Het Laboratorium voor Bromatologie is gespecialiseerd in de ontwikkeling van analytische methodologieën voor de detectie en kwantificatie van contaminanten zoals mycotoxinen in diverse matrices.

Het laboratorium maakt deel uit van Food2Know en Cropfit, twee universitaire expertisecentra rond respectievelijk gezonde voeding en biostimulantia. Het laboratorium coördineert tevens het associatieonderzoeksplatform 'Mycotoxinen en toxigene schimmels' die de mycotoxine problematiek in de meest ruime zin benadert en oplossingen biedt (www.mytox.be).

The Laboratory of Food Analysis is specialized in the development of analytical methodologies for the detection and quantification of contaminants such as mycotoxins in various matrices.

The laboratory is involved in Food2Know and Cropfit, two interfaculty centres of knowledge at Ghent University about food science and biostimulants, respectively. The laboratory also coordinates the association research platform "Mycotoxins and toxigenic moulds" which approaches the mycotoxin issue in a multidisciplinary way (www.mytox.be).

Laboratorium voor Bromatologie

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Group	Matrix
Screening and confirmation or quantitative determination of **mycotoxins**: zearalenone, deoxynivalenol, ochratoxin A, fumonisin B1, fumonisin B2, fumonisin B3, T-2 toxin, HT-2 toxin, aflatoxin B1, aflatoxin B2, aflatoxin G1, aflatoxin G2, nivalenol, neosolaniol, fusarenon-X, 3-acetyldeoxynivalenol, 15-acetyldeoxynivalenol, diacetoxyscirpenol, roquefortine C, altenuene, alternariol, alternariol methylether, enniatin B and sterigmatocystin	feed (LC-MS/MS)
Quantitative determination of **ergot alkaloids**: ergocornine, ergocristine, ergocryptine, ergometrine, ergosine, ergotamine, ergocorninine, ergocristinine, ergocryptinine, ergometrinine, ergosinine and ergotaminine	cereals and feed (LC-MS/MS)
Quantitative determination of **modified mycotoxins**: deoxynivalenol-3-glucoside, 3-acetyldeoxynivalenol, 15-acetyldeoxynivalenol, α-zearalenol, β-zearalenol, zearalenone-4-glucoside, α-zearalenol-4-glucoside, β-zearalenol-4-glucoside and zearalenone-4-sulfate	cereals and feed (LC-MS/MS)
Quantitative determination of **mycotoxins** and **ergot alkaloids:** zearalenone, zearalanone, deoxynivalenol, ochratoxin A, ochratoxin alpha, fumonisin B1, fumonisin B2, fumonisin B3, T-2 toxin, T-2 toxin- triol, HT-2 toxin, aflatoxin B1, aflatoxin B2, aflatoxin G1, aflatoxin G2, aflatoxin M1, nivalenol, neosolaniol, fusarenon-X, sum 3-acetyldeoxynivalenol + 15-acetyldeoxynivalenol, diacetoxyscirpenol, roquefortine C, citrinine, sterigmatocystin, deoxynivalenol-3-glucoside, deepoxy-deoxynivalenol, α-zearalenol, ergocornine, ergocristine, ergocryptine, ergometrine, ergosine, ergotamine, ergocorninine, ergocristinine, ergocryptinine, ergometrinine, ergosinine and ergotaminine, methylergometrine, dihydroergotamine. Screening of **mycotoxins**: T-2 toxin-tetraol, HT-2-toxin-3-glucuronide, zearalenone-14- glucuronide, zearalenone-16- glucuronide, ochratoxin B, 4-hydroxyl- ochratoxin, ochratoxin B-glutathione, 15-monoacetoxyscirpenol	human urine and human blood (LC-MS/MS)
Screening and confirmation or quantitative determination of **mycotoxins**: zearalenone, deoxynivalenol, ochratoxin A, fumonisin B1, fumonisin B2, fumonisin B3, T-2 toxin, HT-2 toxin, aflatoxin B1, aflatoxin B2, aflatoxin G1, aflatoxin G2, nivalenol, neosolaniol, fusarenon-X, 3-acetyldeoxynivalenol, 15-acetyldeoxynivalenol, diacetoxyscirpenol, roquefortine C, alternariol, alternariol methylether, sterigmatocystin, enniatin B, deoxynivalenol-3-glucoside, α-zearalenol and β-zearalenol	sorghum, spices, rice, millet, cassava, yam, soybean, soil (LC-MS/MS)

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Group	Matrix
Screening and confirmation of **metabolites** produced by *Aspergillus flavus*	medium (UHPLC/ HRMS)
Quantitative determination of **mycotoxins:** cereulide, beauvericin, enniatin A, enniatin A1, enniatin B en enniatin B1	maize, wheat, rice, pasta (LC-MS/MS)
Quantitative determination of ***Alternaria* toxins:** alternariol, alternariol monomethyl ether, tenuazonic acid, tentoxin, altenuene, altertoxin-I, alternariol-3-glucoside, alternariol-3-sulfate, alternariol monomethylether-3-glucoside, alternariol monomethyl ether-3-sulfate	tomato products, fruit and vegetable juices (LC-MS/MS)
***In vitro* determination** of the **binder capacity** of mycotoxins for feed-binders	binders (LC-MS/MS)
Please feel free to ask other research-related questions; we are happy to verify the possibilities to tackle your mycotoxin issue!	