



Memo

TO

Mr F. Verstraete
European Commission
Chairperson Working Group on Agricultural Contaminants in food

FROM

Monique de Nijs
November 30, 2020

Dear Mr Verstraete, dear Frans

On behalf of Dr. Veršilovskis I hereby send you the results of the survey on available dipstick test kits for screening of aflatoxins.

The study was carried out on June 22-25, 2020. The internet was searched, as well as the websites from known suppliers of dipstick test kits for screening of aflatoxins (total, B1 or M1) in food and feed.

With kind regards,

Monique de Nijs

EURL mycotoxins & plant toxins
Wageningen Food Safety Research

Cc. Aleksandrs Veršilovskis, Hans Mol, Patrick Mulder, Theo de Rijk

Wageningen Food
Safety Research

DATE

November 30, 2020

SUBJECT

EUURLMP – inventory dipstick
tests aflatoxins

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Dipstick test kits for screening of aflatoxins toxins if food/feed available on the market, June 2020

A. Aim of the search

Aim was to identify supplier of dipstick test kits for analysis of total aflatoxins, aflatoxin B1 and aflatoxin M1, available on the internet. Detail was given to i) the requirement to purchase a separate reader, and ii) approval by official control inspection service or developed under ISO 9001 and iii) the matrix peanuts.

B. Summary of the results:

- Total number of available dipstick test kit identified in the survey: 74
- Two dipstick test kits are USDA-FGIS (Federal grain inspection service) approved for certain commodities and seven of the dipstick test kits were developed under ISO9001.
- Number of available dipstick test kit per category identified in the survey:

	Total number of dipstick test kit	No reader	Reader required
Total aflatoxin	39	21	18
Aflatoxin B1	23	19	4
Aflatoxin M1	12	7	5
Total	74	47	27

- Typical matrices: peanuts, cereals, corn, animal feed, milk
Other matrices: soy, seeds, fodder, sorghum, cooking oil, rice, DDGS, wine, chili powder, beans
- Summarised below are the suppliers identified in this survey in alphabetical order, number of dipstick test kits identified per supplier and per aflatoxin category including required reader or not. In brackets the number of dipstick test kits for which "peanut" or "nut" is mentioned in the commodity description.
- Details are given in tables 1-3.

Supplier		overall	Total aflatoxins		Aflatoxin B1		Aflatoxin M1	
			No reader	Reader required	No reader	Reader required	No reader	Reader required
1	Abbexa	4	1	-	2	-	1	-
2	Aokin	4	1	3 (2 kits)*	-	-	-	-
3	Bioo Scientific	1	-	1 ¹⁾ (1 kit)	-	-	-	-
4	R-Biopharm	5	2 ¹⁾ (1 kit)	2 ¹⁾	1 ¹⁾	-	-	-
5	Charm Sciences Inc.	5	1 (1 kit)	2 ²⁾	-	-	-	2
6	Creative Diagnostics	8	1(1 kit)	-	6 (1 kit)	-	1	-
7	Elabscience	4	1	-	2	-	1	-
8	EuroProxima	2	1	-	1	-	-	-
9	Eurofins Technologies Tecna	2	-	1	-	1	-	-
10	MyBioSource	1	-	-	-	-	1 ¹⁾	-
11	Nankai Biotech Co.	19	9 (2 kits)	-	7 (1 kit)	-	3	-
12	Neogen	4	2	2	-	-	-	-
13	ProGnosis Biotech	8	-	3 (3 kits)	-	3 (3 kits)	-	2
14	Romerlabs	2	1 (1 kit)	1	-	-	-	-
15	Vicam	5	1	3 (1 kit)	-	-	-	1
Total		74	21	18	19	4	7	5

¹⁾ ISO 9001

²⁾ USDA-FGIS

*In brackets the number of dipstick test kits for which "peanut" or "nut" is mentioned in the commodity description.

C. Method - search

- The internet was searched for suppliers of dipstick test kit for total aflatoxins, aflatoxin B1 or aflatoxin M1 on June 22-25, 2020
- Search terms were – dipstick / aflatoxin / screening / testing.
- Various characteristics of the dipstick test kits are presented in tables 1, 2 and 3.
- The results were sorted for:
 - 1 total aflatoxins (table 1); aflatoxin B1 (table 2) and aflatoxin M1 (table 3)
 - 2 The need for a separate reader or not
- Suppliers are presented in alphabetic order in tables 1-3.

Table 1: Total aflatoxins

	Total aflatoxins Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/ storage T°C	Website/price/other
	No reader						
1	Abbexa	Total aflatoxin Total Aflatoxin Rapid Test Kit Reader: NO	Grain, fodder, oil	Range: n.i.* LODs: 5/10/20/50 depending on dilution factor LOQs: n.i Sample intake: 1g	≤ 30 min Sample prep <15 min Test 8-10 min	n.i./ 50 tests/ 12 months at +2-30°C	https://www.abbexa.com/aflatoxin-rapid-test-kit-colloidal-gold https://www.abbexa.com/pdf/Manual/abx092054.pdf price: £250
2	Aokin (produced by Envirologix)	Total aflatoxin QuickTox for Aflatoxin Free in corn bulk grain Reader: NO	Corn	Range: n.i. LODs: n.i. LOQs: 20 Sample intake: n.i.	≤ 10 min 2 min for a negative, 4 min for a positive	n.i./ 50 strips/ n.i.	https://www.envirologix.com/catalog/quicktox-for-aflatoxin-free-in-corn-bulk-grain/?cn-reloaded=1 price: n.i.
3	R-Biopharm	Total aflatoxin AFLACARD TOTAL Reader: NO	food and feed	Range: 2-30 LODs: n.i. LOQs: n.i. Sample intake: 10-50g	≤ 15 min 10 min	ISO9001 / 10 cards containing 20 tests and controls/ 12 months at +2-8°C	https://food.r-biopharm.com/products/aflacard-total/ https://food.r-biopharm.com/wp-content/uploads/sites/2/2012/06/p38_aflacard-total-v19_ifu_17.06.2020.pdf price: n.i.
4	R-Biopharm	Total aflatoxin RIDA®QUICK Aflatoxin Reader: NO	grain, soy flour, nuts, pistachios, coconut flour, sunflower seeds, figs, dates and cashew nuts	Range: 4-20 (up to 50) LODs: 4 LOQs: n.i. Sample intake: 10g	≤ 30 min Sample prep. 10 min Test 4-16 min	ISO9001 / 20 test strips/ 12 months at +2-8°C	https://food.r-biopharm.com/products/ridaquick-aflatoxin/ https://food.r-biopharm.com/wp-content/uploads/sites/2/2012/06/r5204-quick-aflatoxin-18-09-04.pdf price: n.i.

	Total aflatoxins Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/storage T°C	Website/price/other
5	Charm Sciences INC.	Total aflatoxin Mycotube Portable Aflatoxin Screening Test Reader: NO	Maize Peanuts	Range: LODs: >10 LOQs: n.i. Sample intake: n.i.	≤ 10 min Sample prep 5 min Test 5 min	n.i./ n.i./ n.i.	https://www.charm.com/products/test-and-kits/mycotoxin-tests/rosa-lateral-flow/aflatoxin-tests/mycotube/ https://www.charm.com/wp-content/uploads/2020/03/MRK-1269.pdf price: n.i.
6	Creative Diagnostics	Total aflatoxin Total Aflatoxin Colloidal Gold Test Cassette Reader: NO	Drinks Nuts Feed	Range: 5-100 LODs: >Milk: 0.5 >Drinks (walnut milk, ginkgo dew, ect.): 1 >Nuts/Feed (corn, peanut, ect.): 2 LOQs: n.i. Sample intake: n.i	n.i	n.i./ 25 tests/ 18 months at +2-30°C, do not freeze, do not expose to direct sunlight	https://www.creative-diagnostics.com/total-aflatoxin-test-cassette-267587-452.htm https://www.creative-diagnostics.com/pdf/DTSJYJ078.pdf price: n.i.
7	Elabscience	Total aflatoxin AF (Total Aflatoxin) Lateral Flow Assay Kit Reader: NO	Grain Feed Oil	Range: n.i. LODs: 5/10/20/50 depending on dilution factor LOQs: n.i. Sample intake: 1g	≤ 20 min Sample prep <10 min Test 8-10 min	n.i./ 50 tests/ 1 year at +2-30°C	https://www.elabscience.com/p-af(total-aflatoxin)-lateral-flow-assay-kit-40670.html https://file.elabscience.com/Manual/colloidal/E-TO-C005.pdf price: 120\$
8	EuroProxima	Total aflatoxin Aflatoxin total FTRTest Reader: NO	Food Feed	Range: n.i. LODs: 4 LOQs: n.i. Sample intake: n.i	≤ 20 min Sample prep <10 min Test 10 min	n.i./ 10 tests/ n.i	http://europroxima.com/products/contaminants-and-residues/mycotoxins-flow-through-rapid-tests/aflatoxin-total-ftptest/

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	Total aflatoxins Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/storage T°C	Website/price/other
							http://europroxima.com/wp-content/uploads/Product-information-sheet-AFT616-FTRT-1.pdf price: n.i.
9	Nankai Biotech Co.	Total aflatoxin Total Aflatoxin Rapid Test Kit Reader: NO	Animal feed and grains	Range: n.i LODs: n.i LOQs: n.i. Sample intake: n.i	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9399573-total-aflatoxin-rapid-test-kit.html price: n.i.
10	Nankai Biotech Co.	Total aflatoxin Aflatoxin Rapid Test Kit For Feed And Grains Reader: NO	Animal feed and grains	Range: n.i LODs: n.i LOQs: n.i. Sample intake: n.i	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9399723-aflatoxin-rapid-test-kit-for-feed-and-grains.html price: n.i.
11	Nankai Biotech Co.	Total aflatoxin Rapid Aflatoxin Test Kits Rapid Precise Aflatoxin Test Kit Aflatoxin Testing In Rice Reader: NO	feed and grains, cereals, beans, rice, nuts, peanuts	Range: n.i LODs: 5 LOQs: n.i. Sample intake: n.i	≤ 20 min Total assay time 15 min	n.i./ 40 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9399452-rapid-aflatoxin-test-kits-rapid-precise-aflatoxin-test-kit-aflatoxin-testing-in-rice.html price: n.i.
12	Nankai Biotech Co.	Total aflatoxin Aflatoxin Rapid Test Kit For Edible Oil Reader: NO	Edible Oil	Range: n.i LODs: n.i LOQs: n.i. Sample intake: n.i	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9399478-aflatoxin-rapid-test-kit-for-edible-oil.html price: n.i.
13	Nankai Biotech Co.	Total aflatoxin Aflatoxin Rapid Test Kit For Cooking Oil Reader: NO	Cooking Oil	Range: n.i LODs: n.i LOQs: n.i. Sample intake: n.i	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9399479-aflatoxin-rapid-test-kit-for-cooking-oil.html price: n.i.
14	Nankai Biotech Co.	Total aflatoxin	Cooking Oil	Range: n.i LODs: 5 LOQs: n.i.	≤ 10 min	n.i./ 40-50 tests/	http://www.foodrapidtest.com/sale-9481390-total-

	Total aflatoxins Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/storage T°C	Website/price/other
		Total Aflatoxin Test Kit For Cooking Oil Reader: NO		Sample intake: 100µl	Sample prep <5 min Test 3-5 min	1 year at room T°C	aflatoxin-test-kit-for-cooking-oil.html n.i.
15	Nankai Biotech Co.	Total Aflatoxin Total Aflatoxin Rapid Test Kit For Cooking Oil Reader: NO	Cooking Oil	Range: n.i LODs: 5 LOQs: n.i. Sample intake: 100µl	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40-50 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9619198-total-aflatoxin-rapid-test-kit-for-cooking-oil.html price: n.i.
16	Nankai Biotech Co.	Total aflatoxin Total Aflatoxin Rapid Diagnostic One Step Test Kit For Cooking Oil Reader: NO	Cooking Oil	Range: n.i LODs: 5 LOQs: n.i. Sample intake: 100µl	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40-50 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9630599-total-aflatoxin-rapid-diagnostic-one-step-test-kit-for-cooking-oil.html price: n.i.
17	Nankai Biotech Co.	Total aflatoxin Aflatoxin Testing In Rice Reader: NO	Rice, feed and grains, cereals, beans, nuts, peanuts	Range: n.i LODs: 5 LOQs: n.i. Sample intake:	≤ 20 min Total assay time 15 min	n.i./ 40 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9399419-aflatoxin-testing-in-rice-rapid-aflatoxin-test-kits-mycotoxin-lab-detection-test-kit.html price: n.i.
18	Neogen	Total aflatoxin Reveal® for Aflatoxin Reader: NO	Corn Wheat	Range: n.i. LODs: 20 (total) LOQs: n.i. Sample intake: 10g	≤ 10 min Sample prep 5 min Test 3 min	n.i./ 25 tests/ n.i.	https://www.neogen.com/en-gb/categories/mycotoxins/reveal-aflatoxin/ https://www.neogen.com/globalassets/pim/assets/original/10000/8016_pro.pdf price: 224\$
19	Neogen	Total aflatoxin Reveal® MAX for Aflatoxin	Corn Wheat	Range: n.i. LODs: 20 (total) LOQs: n.i.	≤ 10 min Sample prep 5 min	n.i./ 25 tests/ n.i.	https://www.neogen.com/en-gb/categories/mycotoxins/reveal-max-aflatoxin/

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		Reader: NO		Sample intake: 10g	Test 3 min		https://www.neogel.com/globalassets/pim/assets/original/10000/8018_pro.pdf price: 224\$
20	Romerlabs	Total aflatoxin AgraStrip® Total Aflatoxin Qualitative Tests Reader: NO	variety of food products, such as corn, peanuts, rice, rice flour, wheat flour, semolina, almonds, among others	Range: n.i. LODs: 4/10/20 (total) LOQs: n.i. Sample intake: n.i.	≤ 15 min Sample prep 5 min Test 5 min	n.i./ 3 types*24 tests/ +2-25°C	https://www.romerlabs.com/shop/inter_en/agrastrip-r-total-aflatoxin-qualitative-tests/ price: n.i.
21	Vicam	Total aflatoxin AflaCheck Reader: NO	Variety of samples	Range: n.i. LODs: 10 or 20 (total) LOQs: n.i. Sample intake: n.i.	≤ 15 min Sample prep 5 min Test 3 min	n.i./ n.i./ Long shelf life, no refrigeration required	http://vicam.com/aflatoxin-test-kits/aflacheck price: n.i.
	Reader required						
1	Aokin (produced by Envirologix)	Total aflatoxin QuickTox for QuickScan Aflatoxin Flex Reader: Y >QuickScan System	Corn, peanuts, Sorghum, masa flour, corn flour	Range: up to 300 LODs: n.i. LOQs: n.i. Sample intake: n.i.	≤ 10 min 4 min	n.i./ 50 strips/ n.i.	https://www.envirologix.com/catalog/quicktox-quickscan-aflatoxin-flex/ price: n.i.
2	Aokin (produced by Envirologix)	Total aflatoxin QuickTox for QuickScan Aflatoxin FREE Reader: Y >QuickScan System	Corn and corn derived products, corn gluten meal/feed, corn silage, wheat, rice and rice derived products, coconut meal, hominy feed, cottonseed meal, oats, sorghum, soybean meal, barley, peanut	Range: up to 100 LODs: n.i. LOQs: n.i. Sample intake: n.i.	≤ 10 min 4-7 minutes depending on matrix	n.i./ 50 strips/ n.i.	https://www.envirologix.com/catalog/403-11456-quicktox-kit-for-quickscan-detection-of-aflatoxin-free-50-stripskit-volume-packaged/ price: n.i.

	Total aflatoxins Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/ storage T°C	Website/price/other
			seed, whole peanut, peanut hull, peanut seed,				
3	Aokin (produced by Envirologix)	Total aflatoxin QuickTox for QuickScan Aflatoxin Reader: Y >QuickScan System	Corn, wheat, sorghum, oats, barley, rough rice, soybean meal	Range: 2.5-100 LODs: n.i. LOQs: n.i. Sample intake: n.i.	≤ 10 min 5 min	n.i./ 50 strips/ n.i.	https://www.envirologix.com/catalog/310-10418-quicktox-kit-for-quickscan-detection-of-aflatoxin-50-stripskit-volume-packaged/ price: n.i.
4	Bioo Scientific	Total aflatoxin MycoFlow™ Total Aflatoxin Strip Test Kit for Grain, Nuts & Seeds Reader: Y > QuickSTAR™ Strip Reader	Grain, nuts, seeds	Range: n.i. LODs: n.i. LOQs: n.i. Sample intake: n.i.	≤ 10 min Sample prep. <5 min Test 5 min	ISO 9001:2008/ 25 tests/ n.i.	http://www.biooscientific.com/MycoFlow-Total-Aflatoxin-Strip-Test-Kit-For-Grain-Nuts-And-Seeds price: n.i.
5	R-Biopharm	Total aflatoxin RIDA®QUICK Aflatoxin RQS Reader: Y > RIDA®SMART APP software or > RIDA®QUICK SCAN reader	Corn	Range 1: 2-75 Range 2: 50-300 LODs: <2 LOQs: n.i. Sample intake: 10g	≤ 15 min Sample prep. 10 min Test 3 min	ISO9001 / 20 test strips/ 12 months at +2-8°C	https://food.r-biopharm.com/products/ridaquick-aflatoxin-rqs/ https://food.r-biopharm.com/wp-content/uploads/sites/2/2019/12/r5208-quick-aflatoxin-rqs-19-11-25.pdf price: n.i.
6	R-Biopharm	Total aflatoxin RIDA®QUICK Aflatoxin RQS ECO Reader: Y > RIDA®SMART APP software or > RIDA®QUICK SCAN reader	Corn	Range 1: 2-75 Range 2: 50-300 LODs: <2 LOQs: n.i. Sample intake: 10g	≤ 20 min Sample prep. 10 min Test 5 min	ISO9001 / 20 test strips/ 12 months at +2-8°C	https://food.r-biopharm.com/products/ridaquick-aflatoxin-rqs-eco-2/ https://food.r-biopharm.com/wp-content/uploads/sites/2/2019/12/r5209-quick-aflatoxin-rqs-eco-19-11-25.pdf price: n.i.

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	Total aflatoxins Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/storage T°C	Website/price/other
7	Charm Sciences INC.	Total aflatoxin ROSA FAST Aflatoxin Quantitative Test Reader: Y > Charm EZ®-M system	Barley Brown Rice Corn Germ Meal Corn Gluten Meal Corn/ Soy Blend DDG (Distillers Dried Grain) DDGS (Distillers Dried Grain with Solubles) Hominy Millet Oats Popcorn Rough Rice Rye Sorghum Soybeans Soybean Hulls Soybean Meal Soybeans Wheat	Range 1: 0-30/5-30* Range 2: 0-150/20-100* Range 3: 50-300 LODs: 2 LOQs: n.i. Sample intake: 50g *quantitation range	≤ 15 min Sample prep 5 min Test 3-5 min	USDA-FGIS/ 20,100 or 500 tests/ n.i.	https://www.charm.com/products/test-and-kits/mycotoxin-tests/rosa-lateral-flow/aflatoxin-tests/afq-fast/ https://www.charm.com/wp-content/uploads/2019/08/MRK-620.pdf https://www.charm.com/wp-content/uploads/2019/11/MRK-818.pdf price: n.i.
8	Charm Sciences INC.	Total aflatoxin ROSA AFQ-WETS5 Aflatoxin Quantitative Test Reader: Y > Charm EZ®-M system > or the ROSA-M Reader	Corn DDGS Sorghum Soybeans Wheat	Range 1: 0-150/5-100* Range 2: 0-500/50-300* LODs: 3 LOQs: n.i. Sample intake: 50g *quantitation range	≤ 15 min Sample prep 5 min Test 5 min	USDA-FGIS/ 20,100 or 500 tests/ n.i.	https://www.charm.com/products/test-and-kits/mycotoxin-tests/rosa-lateral-flow/aflatoxin-tests/afq-wets5/ https://www.charm.com/wp-content/uploads/2020/06/MRK-898.pdf https://www.charm.com/wp-content/uploads/2020/06/MRK-900.pdf price: n.i.
9	Eurofins technologies Tecna	Total aflatoxin Smart Strip AFLA Reader: Y >LAB LFD reader >Software Smart-Soft >Computer	Cereals	Range 1: 2-75 (total) Range 2: 10-375 LODs: 10 LOQs: n.i. Sample intake: 50g	≤ 15 min Sample prep 5 min Test 10 min	n.i./ 5,20 or 50 tests/ +2-8°C, do not freeze	https://tecna.eurofins.com/products/mycotoxins/aflatoxins-b-and-g/smart-strip-afla/

	Total aflatoxins Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/storage T°C	Website/price/other
							https://tecna.eurofi-ns-technologies.com/media/5125/ma810_ma850_ma885-kit-insert.pdf price: n.i.
10	Neogen	Total aflatoxin Reveal® Q+ for Aflatoxin Reader: Y Portable Reader with data management software: > Reveal AccuScan Gold > Reveal AccuScan Pro > Raptor reader	Corn Corn products	Range: 30-100 LODs: 2 (total) LOQs: n.i. Sample intake: 10g	≤ 15 min Sample prep 5 min Test 6 min	n.i./ 25 tests/ n.i.	https://www.neogen.com/en-gb/categories/mycotoxins/reveal-q-plus-aflatoxin/ https://www.neogen.com/globalassets/pim/assets/original/10000/8085_pro_en-us_gold.pdf price: 224\$
11	Neogen	Total aflatoxin Reveal® Q+ MAX for Aflatoxin Reader: Y Portable Reader with data management software: > Reveal AccuScan Gold > Reveal AccuScan Pro > Raptor reader	Variety of commodities, including wheat and corn	Range: 3-300 LODs: 3 (total) LOQs: n.i. Sample intake: 10g	≤ 15 min Sample prep 5 min Test 6 min	n.i./ 25 tests/ n.i.	https://www.neogen.com/en-gb/categories/mycotoxins/reveal-q-plus-max-aflatoxin/ https://www.neogen.com/globalassets/pim/assets/original/10000/8088_pro_en-us_gold.pdf price: 233\$
12	ProGnosis Biotech	Total aflatoxin SYMMETRIC TOTAL ES Reader: Y >Lateral logic reader	grains, nuts, cereals and other commodities including animal feeds	Range: 0.25-8 LODs: 0.1 LOQs: n.i. Sample intake: n.i	≤ 20 min Sample prep <5 min Test 10 min	n.i./ 24 or 48 tests/ 1 year at +2-8°C	https://www.prognosis-biotech.com/products/lateral-flow-mycotoxins-in-food-feed/symmetric-total-es/ price: n.i.
13	ProGnosis Biotech	Total aflatoxin SYMMETRIC TOTAL GREEN 0-30 Reader: Y	grains, nuts, cereals and other commodities including animal feeds	Range: 1.2-30 LODs: 1 LOQs: n.i. Sample intake: n.i	≤ 15 min Sample prep <5 min Test 5 min	n.i./ 24 or 48 tests/ 1 year at +2-8°C	https://www.prognosis-biotech.com/products/lateral-flow-mycotoxins-in-food-

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		>Lateral logic reader					feed/symmetric-total-green-0-30/ price: n.i.
14	ProGnosis Biotech	Total aflatoxin SYMMETRIC TOTAL OP 0-50 Reader: Y >Lateral logic reader	grains, nuts, cereals and other commodities including animal feeds	Range: 4-50 LODs: 2 LOQs: n.i. Sample intake: n.i	≤ 15 min Sample prep <5 min Test 8 min	n.i./ 24 or 48 tests/ 1 year at +2-8°C	https://www.prognosis-biotech.com/products/lateral-flow-mycotoxins-in-feed/symmetric-total-op-0-50/ price: n.i.
15	Romerlabs	Total aflatoxin AgraStrip® Aflatoxin WATEX® Quantitative Tests Reader: Y > AgraVisionTM reader	Corn Wheat	Range: 0-500 LODs: 3.3 (total) LOQs: 5.0 (total) Sample intakes: 10g or 50g	≤ 10 min Sample prep 5 min Test 3 min	n.i./ 24 tests or 120 tests/ +2-8°C	https://www.romerlabs.com/shop/agrap-strip-r-aflatoxin-watex-r-quantitative-tests/ price: n.i.
16	Vicam	Total aflatoxin Afla-V Reader: Y > Vertu Lateral Flow Reader	n.i.	Range: 0-100 LODs: 2 (total) LOQs: n.i. Sample intake: n.i.	≤ 15 min Sample prep 5 min Test 5 min	n.i./ n.i./ Long shelf life	http://vicam.com/aflatoxin-test-kits/afla-v price: n.i.
17	Vicam	Total aflatoxin Afla-V AQUA Reader: Y > Vertu Lateral Flow Reader	Corn Peanuts	Range: 0-100 LODs: 2 (total) LOQs: n.i. Sample intake: n.i.	≤ 15 min Sample prep 5 min Test 5 min	n.i./ n.i./ Long shelf life	http://vicam.com/aflatoxin-test-kits/afla-v-aqua price: n.i.
18	Vicam	Total aflatoxin Afla-V AQUA HS Reader: Y > Vertu Lateral Flow Reader	n.i.	Range: 0-100 LODs: 2 (total) LOQs: n.i. Sample intake: n.i.	≤ 15 min Sample prep 5 min Test 5 min	n.i./ n.i./ Long shelf life	http://vicam.com/aflatoxin-test-kits/afla-v-aqua-hs price: n.i.

*=not indicated

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Table 2: Aflatoxin B1

DATE
November 30, 2020

	Aflatoxin B1 Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/ storage T°C	Website/price/other
	No reader						
1	Abbexa	Aflatoxin B1 Rapid Test Kit Reader: NO	Grain, fodder, oil	Range: n.i.* LODs: 1 LOQs: n.i Sample intake: n.i	n.i.	n.i./ 50 tests/ 12 months at +2-30°C	https://www.abbexa.com/aflatoxin-b1-rapid-test-kit-colloidal-gold-1 price: £250
2	Abbexa	Aflatoxin B1 Rapid Test Kit Reader: NO	Grain, fodder, oil	Range: n.i. LODs: 2 LOQs: n.i Sample intake: n.i	n.i.	n.i./ 50 tests/ 12 months at +2-30°C	https://www.abbexa.com/aflatoxin-b1-rapid-test-kit-colloidal-gold price: £230
3	R-Biopharm	Aflatoxin B1 AFLACARD B1 Reader: NO	food and feed	Range: 2-30 LODs: n.i. LOQs: n.i. Sample intake: 10-50g	≤ 15 min 5-10 min	ISO9001 / 10 cards containing 20 tests and controls/ 12 months at +2-8°C	https://food.r-biopharm.com/products/aflacard-b1-2/ https://food.r-biopharm.com/wp-content/uploads/sites/2/2012/06/p27_aflacard-b1-y18_ifu_17.06.2020.pdf price: n.i.
4	Creative Diagnostics	Aflatoxin B1 Aflatoxin B1 Precise Test (Nuts) Reader: NO	Nuts	Range: 5-100 LODs: 5/10/20/50/100 (depending on dilution factor) LOQs: n.i. Sample intake: 2g	≤ 20 min Sample prep <10 min Test 5-10 min	n.i./ 10 tests/ 18 months at +2-30°C, do not freeze, do not expose to direct sunlight	https://www.creative-diagnostics.com/Aflatoxin-B1-Precise-Test-106658-452.htm http://img.creative-diagnostics.com/pdf/DTS431.Aflatoxin%20B1.pdf price: n.i.
5	Creative Diagnostics	Aflatoxin B1 Precise Test (Chilli Powder) Reader: NO	Chilli Powder	Range: 5-100 LODs: 5/10/20/50/100 (depending on dilution factor) LOQs: n.i. Sample intake: 2g	≤ 20 min Sample prep <10 min Test 5-10 min	n.i./ 10 tests/ 18 months at +2-30°C, do not freeze, do not expose	https://www.creative-diagnostics.com/Aflatoxin-B1-Precise-Test-106659-452.htm http://img.creative-diagnostics.com/pdf/DTS432.Aflatoxin%20B1.pdf

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	Aflatoxin B1 Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/storage T°C	Website/price/other
						to direct sunlight	price: n.i.
6	Creative Diagnostics	Aflatoxin B1 Precise Test (Fermented Wine) Reader: NO	Fermented Wine	Range: 5-100 LODs: 5 /10/20/50/100 (depending on dilution factor) LOQs: n.i. Sample intake: 2ml	≤ 20 min Sample prep <10 min Test 5-10 min	n.i./ 10 tests/ 18 months at +2-30°C, do not freeze, do not expose to direct sunlight	https://www.creative-diagnostics.com/Aflatoxin-B1-Precise-Test-106660-452.htm http://img.creative-diagnostics.com/pdf/DTS433,Aflatoxin%20B1.pdf price: n.i.
7	Creative Diagnostics	Aflatoxin B1 Precise Test Reader: NO	Grains Feed	Range: 5-100 LODs: 5 /10/20/50/100 (depending on dilution factor) LOQs: n.i. Sample intake: 2g	≤ 20 min Sample prep <10 min Test 5-10 min	n.i./ 10 tests/ 18 months at +2-30°C, do not freeze, do not expose to direct sunlight	https://www.creative-diagnostics.com/Aflatoxin-B1-Precise-Test-106661-452.htm http://img.creative-diagnostics.com/pdf/DTS434,Aflatoxin%20B1.pdf price: n.i.
8	Creative Diagnostics	Aflatoxin B1 Screen Test Reader: NO	Grains Feed	Range: 20-100 LODs: 20 /30/50/100 (depending on dilution factor) LOQs: n.i. Sample intake: 2g	≤ 20 min Sample prep <10 min Test 5-10 min	n.i./ 10 tests/ 18 months at +2-30°C, do not freeze, do not expose to direct sunlight	https://www.creative-diagnostics.com/Aflatoxin-B1-Screen-Test-106665-452.htm http://img.creative-diagnostics.com/pdf/DTS438,Aflatoxin%20B1.pdf price: n.i.
9	Creative Diagnostics	Aflatoxin B1 Precise Test (Edible Oil) Reader: NO	Edible Oil	Range: 5-100 LODs: 5 /10/20/50/100 (depending on dilution factor) LOQs: n.i. Sample intake: 2g	≤ 20 min Sample prep <10 min Test 5-10 min	n.i./ 10 tests/ 18 months at +2-30°C, do not freeze, do not expose to direct sunlight	https://www.creative-diagnostics.com/AFB1-Rapid-Test-106705-452.htm http://img.creative-diagnostics.com/pdf/DTS478,Aflatoxin%20B1.pdf price: n.i.

	Aflatoxin B1 Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/ storage T°C	Website/price/other
10	Elabscience	AFB1 (Aflatoxin B1) Lateral Flow Assay Kit Reader: NO	Grain Feed Oil	Range: n.i. LODs: >grain, feed: 5-20 >oil: 10 >20/50/100 depending on dilution factor LOQs: n.i. Sample intake: >grain, feed: 2g >oil: 1g	≤ 20 min Sample prep <10 min Test 8-10 min	n.i./ 50 tests/ 1 year at +2-30°C	https://www.elabscience.com/p-afb1(aflatoxin b1) lateral flow assay kit-40673.html https://file.elabscience.com/Manual/colloidal/E-TO-C001.pdf price: 110\$
11	Elabscience	AFB1 (Aflatoxin B1) Lateral Flow Assay Kit Reader: NO	Grain Feed Oil	Range: n.i. LODs: 5/10/20/50 depending on dilution factor LOQs: n.i. Sample intake: >grain, feed: 2g >oil: 1g	≤ 20 min Sample prep <10 min Test 8-10 min	n.i./ 50 tests/ 1 year at +2-30°C	https://www.elabscience.com/p-afb1(aflatoxin b1) lateral flow assay kit-40671.html https://file.elabscience.com/Manual/colloidal/E-TO-C006.pdf price: 130\$
12	EuroProxima	Aflatoxin B1 FTRTest Reader: NO	Food Feed	Range: n.i. LODs: 2 LOQs: n.i. Sample intake: n.i	≤ 20 min Sample prep <10 min Test 10 min	n.i./ 10 tests/ n.i	http://europroxima.com/products/contaminants-and-residues/mycotoxins-flow-through-rapid-tests/aflatoxin-b1-ftrtest/ http://europroxima.com/wp-content/uploads/Product-information-sheet-AFB515-FTR1.pdf price: n.i.
13	Nankai Biotech Co.	Aflatoxin B1 Aflatoxin Test Kit For Cooking Oil Reader: NO	Cooking Oil	Range: n.i. LODs: 5 LOQs: n.i. Sample intake: 100µl	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40-50 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9481361-aflatoxin-test-kit-for-cooking-oil.html price: n.i.
14	Nankai Biotech Co.	Aflatoxin B1	Cooking Oil	Range: n.i. LODs: 5	≤ 10 min	n.i./	http://www.foodrapidtest.com/sale-

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	Aflatoxin B1 Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/storage T°C	Website/price/other
		Aflatoxin Rapid Test Kit For Cooking Oil Reader: NO		LOQs: n.i. Sample intake: 100µl	Sample prep <5 min Test 3-5 min	40-50 tests/ 1 year at room T°C	9619195-aflatoxin-rapid-test-kit-for-cooking-oil.html price: n.i.
15	Nankai Biotech Co.	Aflatoxin B1 Aflatoxin Rapid Diagnostic One Step Test Kit For Cooking Oil Reader: NO	Cooking Oil	Range: n.i. LODs: 5 LOQs: n.i. Sample intake: 100µl	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40-50 tests/ 1 year at room T°C	http://www.foodrapid-test.com/sale-9630592-aflatoxin-rapid-diagnostic-one-step-test-kit-for-cooking-oil.html price: n.i.
16	Nankai Biotech Co.	Aflatoxin B1 Aflatoxin Test Kit For Feeds And Grains Reader: NO	Feeds, Grains, Wheat, Maize, Chili, Flour	Range: 5-10 LODs: 5/10/30/50/100 depending on dilution factor LOQs: n.i. Sample intake: n.i.	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40-50 tests/ 1 year at room T°C	http://www.foodrapid-test.com/sale-9483456-aflatoxin-test-kit-for-feeds-and-grains.html price: n.i.
17	Nankai Biotech Co.	Aflatoxin B1 Aflatoxin Test Kit For Peanuts Reader: NO	Peanuts, feed and grain	Range: n.i. LODs: 5 LOQs: n.i. Sample intake: n.i.	≤ 20 min Total assay time 15 min	n.i./ 40 tests/ 1 year at room T°C	http://www.foodrapid-test.com/sale-9399694-aflatoxin-test-kit-for-peanuts.html price: n.i.
18	Nankai Biotech Co.	Aflatoxin B1 Rapid Screening Test Kit (Mycotoxin) Reader: NO	Animal feed, poultry feed, cattle feed, chicken feed, and Grains, such as wheat, corns, soybean	Range: n.i. LODs: n.i. LOQs: n.i. Sample intake: n.i.	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40 tests/ 1 year at room T°C	http://www.foodrapid-test.com/sale-9399477-aflatoxin-b1-rapid-screening-test-kit-mycotoxin.html price: n.i.
19	Nankai Biotech Co.	Aflatoxin B1 Aflatoxin B1 Rapid Test Strip For Animal Feed (Chicken Feed, Cattle Feed) Reader: NO	Chicken Feed, Cattle Feed	Range: n.i. LODs: n.i. LOQs: n.i. Sample intake: n.i.	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 40 tests/ 1 year at room T°C	http://www.foodrapid-test.com/sale-9399566-aflatoxin-b1-rapid-test-strip-for-animal-feed-chicken-feed-cattle-feed.html price: n.i.
	Reader required						

	Aflatoxin B1 Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/ storage T°C	Website/price/other
1	Eurofins technologies Tecna	Aflatoxin B1 Smart Strip AFLA B1 Reader: Y >LAB LFD reader >Software Smart-Soft >Computer	Cereals	Range 1: 1-75 Range 2: 5-375 LODs: 10 LOQs: n.i. Sample intake: 10g or 50g	≤ 15 min Sample prep 5 min Test 10 min	n.i./ 5,10 or 20 tests/ +2-8°C, do not freeze	https://tecna.eurofins-technologies.com/home/products/mycotoxins/aflatoxins-b-and-g/smart-strip-afla-b1/ https://tecna.eurofins-technologies.com/media/5928/ma895_ma820_ma870_kit-insert_.pdf https://tecna.eurofins-technologies.com/media/5106/smart_char_t_ss_b1_05_2019.pdf price: n.i.
2	ProGnosis Biotech	SYMMETRIC B1 ES Reader: Y >Lateral logic reader	grains, nuts, cereals and other commodities including animal feeds	Range: 0.25-8 LODs: 0.1 LOQs: n.i. Sample intake: n.i	≤ 15 min Sample prep <5 min Test 8 min	n.i./ 24 or 48 tests/ 1 year at +2-8°C	https://www.prognosis-biotech.com/products/lateral-flow-mycotoxins-in-food-feed/symmetric-b1-es/ https://www.prognosis-biotech.com/wp-content/uploads/2020/02/ProGnosis-Product-e-Catalog_v8.6_en.pdf price: n.i.
3	ProGnosis Biotech	SYMMETRIC B1 GREEN Reader: Y >Lateral logic reader	grains, nuts, cereals and other commodities including animal feeds	Range: 2-40 LODs: 1 LOQs: n.i. Sample intake: n.i	≤ 15 min Sample prep <5 min Test 5 min	n.i./ 24 or 48 tests/ 1 year at +2-8°C	https://www.prognosis-biotech.com/products/lateral-flow-mycotoxins-in-food-feed/symmetric-b1-green/ price: n.i.
4	ProGnosis Biotech	SYMMETRIC B1 OP Reader: Y	grains, nuts, cereals and 30 other	Range: 1.5-30 LODs: 1 LOQs: n.i.	≤ 15 min	n.i./ 24 or 48 tests/	https://www.prognosis-biotech.com/products

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	Aflatoxin B1 Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/ storage T°C	Website/price/other
		>Lateral logic reader	commodities including animal feeds	Sample intake: n.i	Sample prep <5 min Test 8 min	Storage: +2-8°C	/lateral-flow-mycotoxins-in-food-feed/symmetric-b1-op/ price: n.i.

*=not indicated

Table 3: Aflatoxin M1

DATE
November 30, 2020

	Aflatoxin M1 Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/ storage T°C	Website/price/other
	No reader						
1	Abbexa	Aflatoxin M1 (AFM1) Rapid Test Kit Reader: NO	Milk	Range: n.i.* LODs: 0.1 LOQs: n.i Sample intake: n.i	n.i.	n.i./ 50 tests/ 12 months at +2-30°C	https://www.abbexa.com/aflatoxin-m1-afm1-rapid-test-kit-colloidal-gold price: £290
2	Creative Diagnostics	Aflatoxin M1 Residue Rapid Test Strip (Milk) Reader: NO >incubator required	Milk	Range: n.i. LODs: 0.2 ng/ml LOQs: n.i. Sample intake: 200µl	≤ 15 min Sample prep <10 min Test 3 min	n.i./ 40 tests/ 12 months at +15-25°C, do not freeze, do not expose to direct sunlight	https://www.creative-diagnostics.com/Aflatoxin-M1-Residue-Rapid-Test-4067-452.htm http://img.creative-diagnostics.com/pdf/DTS026,AflatoxinM1.pdf price: n.i.
3	Elabscience	AFM1(Aflatoxin M1) Lateral Flow Assay Kit Reader: NO	Milk	Range: n.i. LODs: 0.1 LOQs: n.i. Sample intake: 200 µl	≤ 40 min Sample prep <5 min Test 10-30 min	n.i./ 50 tests/ 1 year at +2-30°C	https://www.elabscience.com/p-afm1(aflatoxin_m1)_lateral_flow_assay_kit-205688.html https://file.elabscience.com/Manual/colloidal/E-TO-C009.pdf price: 150\$
4	MyBioSource	General AFM1 (Aflatoxin M1) Assay Kit Reader: NO	Milk	Range: n.i. LODs: 0.1 LOQs: n.i. Sample intake: 200 µl	≤ 40 min Sample prep <5 min Test 10-30 min	ISO 9001:2015/ 50 tests/ +2-30°C	https://www.mybiosource.com/general-assay-kits/afm1-aflatoxin-m1/2563683 price: 175\$
5	Nankai Biotech Co.	Aflatoxin M1 Rapid Test Kit For Milk Reader: NO	Milk	Range: n.i LODs: n.i LOQs: n.i. Sample intake: n.i	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 96 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9399585-aflatoxin-m1-rapid-test-kit-for-milk.html price: n.i.
6	Nankai Biotech Co.	Aflatoxin M1Test Kit For Milk Reader: NO	Milk	Range: n.i LODs: 0.1-0.2 LOQs: n.i.	≤ 10 min	n.i./ 96 tests/	http://www.foodrapidtest.com/sale-9480898-aflatoxin-

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	Aflatoxin M1 Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/storage T°C	Website/price/other
				Sample intake: n.i	Sample prep <5 min Test 3 min	1 year at room T°C	m1test-kit-for-milk.html price: n.i.
7	Nankai Biotech Co.	Aflatoxin Diagnostic Test Kit For Milk Reader: NO	Milk	Range: n.i LODs: n.i LOQs: n.i. Sample intake: n.i	≤ 10 min Sample prep <5 min Test 3-5 min	n.i./ 96 tests/ 1 year at room T°C	http://www.foodrapidtest.com/sale-9399505-aflatoxin-diagnostic-test-kit-for-milk.html price: n.i.
	Reader required						
1	Charm Sciences INC.	Aflatoxin M1 Charm SL Aflatoxin M1 Test (SLAFM) Reader: Y > Reader harm EZ®-M system > or the ROSA Pearl-X	Milk	Range: n.i. LODs: 0.35 LOQs: n.i. Sample intake: n.i.	≤ 10 min Sample prep 5 min Test 3 min	n.i./ n.i./ n.i.	https://www.charm.com/products/test-and-kits/antibiotic-tests/rosa-lateral-flow/slafm-charm-sl-aflatoxin-m1-test/ price: n.i.
2	Charm Sciences INC.	Aflatoxin M1 Charm SL Aflatoxin M1 Quantitative Test (SLAFMQ) Reader: Y > Reader harm EZ®-M system > or the ROSA Pearl-X	Milk	Range: LODs: 0.5 LOQs: n.i. Sample intake: n.i.	≤ 15 min Sample prep 5 min Test 8 min	n.i./ n.i./ n.i.	https://www.charm.com/products/test-and-kits/antibiotic-tests/rosa-lateral-flow/slafmq-charm-sl-aflatoxin-m1-quantitative-test/ price: n.i.
3	ProGnosis Biotech	Aflatoxin M1 SYMMETRIC M1 1000 Reader: Y >Lateral logic reader	milk	Range: 0.8-0.15 LODs: 0.2 LOQs: n.i. Sample intake: n.i	≤ 20 min Sample prep <5 min Test 10 min	n.i./ 48 or 96 tests/ 1 year at +2-8°C	https://www.prognosis-biotech.com/products/lateral-flow-aflatoxin-m1-milk/symmetric-m1/ price: n.i.
4	ProGnosis Biotech	Aflatoxin M1 SYMMETRIC M1 Reader: Y >Lateral logic reader	milk	Range: 0.7-1.0 LODs: 0.22 LOQs: n.i. Sample intake: n.i	≤ 10 min Sample prep <5 min Test 3 min	n.i./ 48 or 96 tests/ 1 year at +2-8°C	https://www.prognosis-biotech.com/products/lateral-flow-aflatoxin-m1-milk/symmetric-m1-1000/

	Aflatoxin M1 Supplier	Test kit name/ Reader (Y/NO)?	Matrix	Test range, LOD, LOQ, µg/kg, sample intake	Time necessary to perform test	Accreditation/No per box/storage T°C	Website/price/other
							price: n.i.
5	Vicam	Aflatoxin M1 Afla M1-V Reader: Y > Vertu Lateral Flow Reader	Dairy products	Range: n.i. LODs: 25 (AFM1) LOQs: n.i. Sample intake: n.i.	≤ 15 min Sample prep 5 min Test 10 min	n.i./ n.i./ Long shelf life	http://vicam.com/aflatoxin-test-kits/afla-m1-v price: n.i.

*=not indicated