

New Products

RIDA[®]QUICK Aflatoxin (R5204)

R-Biopharm launched the new RIDA[®]QUICK Aflatoxin test, lateral flow strip in April.

The test is suitable for the detection of aflatoxins in a range of foods and has already been assessed on cereals (including maize, wheat, barley, rye, oats, rice and millet) and nuts (including peanuts, hazelnuts, Brazil nuts, macadamia nuts, pistachios, almonds and cashew nuts). The test has also been shown to be suitable for analysis of figs. The test format is different to other lateral flow systems in the RIDA[®]QUICK range in that if the control band and test band on the strips are visible then the test result is positive. If there is no test band visible and only the control band can be seen then the test result is negative.

Another change to the test is that RIDA[®]QUICK Aflatoxin test is that visual results are read after 4, 8 or 16 minutes, depending on the detection level required. This means that the sensitivity of the test improves over a longer incubation period. A positive result after 16 minutes incubation for example means that the sample contains $\geq 4 \mu\text{g}/\text{kg}$ (ppb) aflatoxin.

The new RIDA[®]QUICK Aflatoxin test contains 20 test strips, each strip being suitable for one determination in addition to test reagents and an evaluation card. The evaluation card illustrates test bands of various colour intensities to facilitate interpretation of the results (see Fig. 1: Evaluation Card).

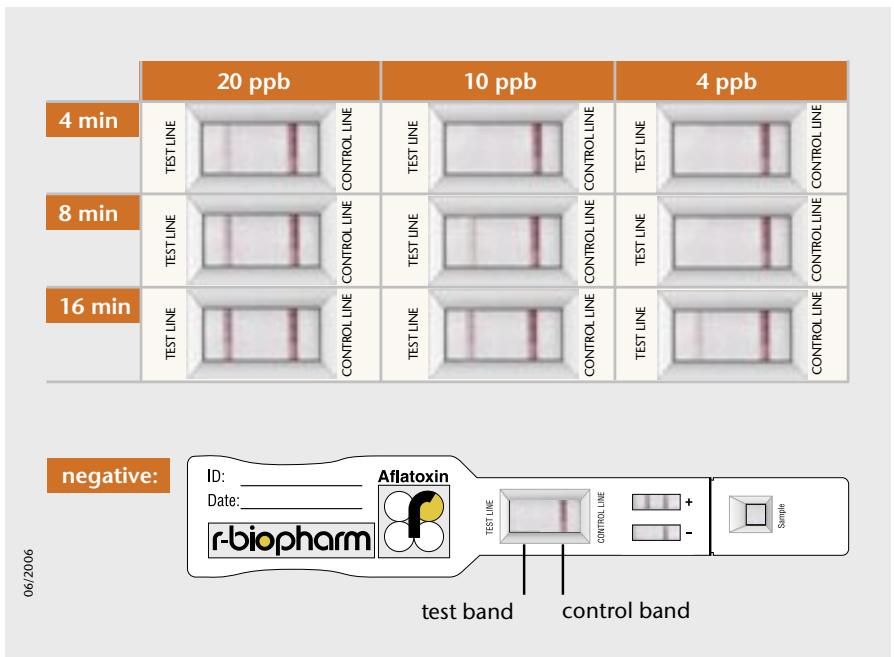


Fig. 1

The R-Biopharm product range already has two other lateral flow strip format tests for mycotoxin analysis including:

- RIDA[®]QUICK DON (R5904), 25 test strip, each strip allows one determination

The detection limit for this test has meanwhile been adjusted from 1 ppm to 1.25 ppm in compliance with the EU limits for DON in unprocessed cereal (except durum

wheat, oats and maize), which is due to come into force on 1 July 2006.

- RIDA[®]QUICK Fumonisin (R5604), 25 test strips, each strip allows one determination

In both these test strips (R5904 and R5604), the control and the test bands are visible if the test results are negative. If the test band is not visible at all or only faintly visible, this indicates that the results are positive.

RIDASCREEN® Aflatoxin M₁ 30/15 (R1111)



Production of the RIDASCREEN® Aflatoxin M₁ test (R1101) for the analysis of milk and cheese will be discontinued after the sale of the current batch No. 04076.

The test will be replaced by the new RIDASCREEN® Aflatoxin M₁ 30/15 test (R1111). The test offers shorter incubation periods of 1 x 30 min and 2 x 15 min instead of

2 x 1 h and 1 x 30 min incubation times (hence the reason for the name change to RIDASCREEN® Aflatoxin M₁ 30/15). The test has undergone an internal comparison with the previous Aflatoxin M₁ test and the results were more than satisfactory.

A validation report is available on request at R-Biopharm, please contact your local distributor.

RIDASCREEN® Ochratoxin A 30/15 (R1311)

The new RIDASCREEN® Ochratoxin A 30/15 test (R1311) offers several different features, which are stated in Table 1, compared with

the previous RIDASCREEN® Ochratoxin A test (R1301).

Tab. 1: Differences between RIDASCREEN® Ochratoxin A 30/15 test (R1311) and RIDASCREEN® Ochratoxin A test (R1301)

	R1301 (old)	R1311 (new)
Standard range	25 - 2025 ppt	50 - 1800 ppt
Substrate / Chromogen	two reagents	one reagent
Sample preparation for cereal and feed	Extraction with HCl and dichlormethane	Extraction with sodium hydrogen carbonate buffer
Test procedure		
Washing	with dist. water	with washing buffer
incubation time	2 h 30 min	45 min
Dilution factor for cereal and feed	25	20
Detection limit		
Cereal and feed	approx. 625 ppt	approx. 1 ppb
beer and pig serum	approx. 25 ppt	approx. 50 ppt
Recovery rate		
Cereal and feed	approx. 85 %	approx. 100 %
beer and pig serum	approx. 73 %	approx. 100 %

Both tests will be available for the time being, until the new test (R1311) ultimately replaces the original test (R1301).

EASI-EXTRACT® Vitamin B₁₂ Immunoaffinity Columns (RBRP80/80B)

R-Biopharm Rhône Ltd. have recently launched EASI-EXTRACT® Vitamin B₁₂ immunoaffinity columns for the analysis of vitamin B₁₂ in a range of different commodities.

Vitamin B₁₂ is an essential vitamin linked to human growth and cell development, assisting in the production of red blood cells and helping the nervous system to function correctly. It is also an important component of several enzymes and is involved in the metabolism of certain amino acids. Because vitamin B₁₂ is a water-soluble vitamin and cannot be stored in the body, it is important that it is included in our daily diet. Naturally occurring forms of vitamin B₁₂ are found predominantly in meat and dairy products, but only one form cyanocobalamin is added for the

fortification of foods. This is of particular importance to people who follow a vegan diet, as they are unable to obtain their daily intake of vitamin B₁₂ through normal dietary sources.

EASI-EXTRACT® Vitamin B₁₂ columns allow detection of both natural vitamin B₁₂ and added cyanocobalamin in food. They also offer the analyst a number of advantages over other more complicated methods of vitamin analysis. The column contains monoclonal antibodies specific for vitamin B₁₂, which offers exceptional clean up of complex food samples, removing any pigments or interfering components prior to analysis. Excellent results have been achieved when analysing tablets, fruit juices, energy drinks and baby foods as well as other complex food matrices. The column

also concentrates levels of vitamin B₁₂, improving analytical sensitivity and producing cleaner and more accurate chromatography.

EASI-EXTRACT® Vitamin B₁₂ immunoaffinity columns can be used with different extraction procedures to provide optimum recoveries and are very simple to use. Any vitamin B₁₂ in the sample is extracted before being diluted, filtered and passed slowly through

the EASI-EXTRACT® Vitamin B₁₂ column where binding takes place between the antibody and the vitamin. The column is then washed to remove any extraneous unbound pigments and the vitamin B₁₂ is released from the column using neat methanol. The sample is then evaporated and then reconstituted in a solution of trifluoroacetic acid (TFA) prior to final detection by HPLC.

EASI-EXTRACT® T-2 and HT-2 Immunoaffinity Columns (RBRP43/43B)

T-2 and HT-2 are type-A tricothecenes, a group of mycotoxins, which are produced by certain Fusarium moulds. They are often found in grains such as wheat, maize, oats and barley. Recent estimates of T-2 and HT-2 intake in the human diet have indicated that the presence of these toxins in foods is of concern to public health.

T-2 is thought to be the cause of alimentary toxin aleukia (ATA), which is the most well recognized human tricothecene mycotoxicosis. Symptoms of the human disease can include skin rashes, nausea, vomiting, dizziness and headaches. Recently the Food Standards Agency in the UK have stressed the need to develop more sensitive and accurate methods for T-2 and HT-2 with a view to introducing EU legislation in 2007.

R-Biopharm Rhône Ltd. has recently launched EASI-EXTRACT® T-2 and HT-2 immunoaffinity columns for analysis of T-2 and HT-2 in wheat, barley, oats and maize

products in conjunction with HPLC. The new columns contain a monoclonal antibody, which is specific for both T-2 and HT-2, offering exceptional clean-up and improved sensitivity. The new columns are suitable for single analysis or can be automated to allow numerous samples to be processed simultaneously.

The EASI-EXTRACT® T-2 and HT-2 columns offer many advantages to the analyst. The columns detect both T-2 and HT-2, which is important since both toxins are covered under forthcoming EU legislation. The columns have a detection limit of between 1 - 10 ppb, which exceeds the proposed EU legislative levels. The columns have also been found to be very reliable giving recoveries of between 80 - 100 % for both T-2 and HT-2 in a variety of cereals.



If you are interested

in our products, please contact your local distributor for more information.

Workshops in Austria



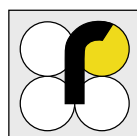
Workshop "Vitamins" in Austria	Date	Fee in €
Veterinary Medical University Vienna, Institute of Meat Hygiene, Meat Technology and Food Sciences Veterinärplatz 1, A-1210 Wien	Wed. 5 July 2006 9:00 h to approx. 17:00 h	150,-

In addition to a brief introduction to vitamins – action, requirements, incidence and the need for vitamin supplements, participants – will have the opportunity of conducting the VitaFast® folic acid assay themselves.

Guest speakers:

Univ. Ass. Mag. Dr. Regine Schönlechner / Universität für Bodenkultur, Department für Lebensmittelwissenschaften und -technologie, Wien
O. Univ. Prof. Dr. phil. Werner Pfannhauser / Technische Universität Institut für Lebensmittelchemie und -technologie, Graz

r-biopharm



Workshop "Microbiology" in Austria	Date	Fee in €
Veterinary Medical University Vienna, Institute of Meat Hygiene, Meat Technology and Food Sciences Veterinärplatz 1, A-1210 Wien	Thurs. 21 Sept. 2006 9:00 till approx. 17:00 h	150,-

This event will be held in cooperation with the Institute of Meat Hygiene, Meat Technology and Food Sciences and is aimed at people responsible for routine microbiological analysis and for monitoring cleanliness.

After a brief introduction, the participants will prepare a dilution series of a food sample and conduct various surface tests for cleanliness and bacterial counts using RIDA®COUNT. In addition, participants can also assess the RIDA® ATP Detection System.

For further information and/or registration for the workshops in Austria, please contact: DI Christine M. Gutschelhofer, Tel: +43 (0) 664 135 21 22, Fax: +43 (0) 1 / 768 80 57 or e-mail: c.gutschelhofer@r-biopharm.de



Trade Fairs and Conferences

17.09. - 20.09.2006	AACC (American Association of Cereal Conference) San Francisco, California, USA Representatives: R-Biopharm Inc.
17.09. - 21.09.2006	AOAC International Meeting Minneapolis, Minnesota, USA Representatives: R-Biopharm Inc.
26.09. - 29.09.2006	47. Arbeitstagung des Arbeitsgebietes Lebensmittelhygiene der Deutschen Veterinärmedizinischen Gesellschaft e.V. Garmisch-Partenkirchen Representatives: R-Biopharm AG
27.09. - 29.09.2006	VIV China Beijing, China Representatives: Pablo Altmann, R-Biopharm AG

The next R-Biopharm^{news} will be published during the III. quarter 2006

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