

Approval for RIDASCREEN®FAST DON- and FAST Fumonisin tests by USDA/GIPSA

(Press release, August 01)

R-Biopharm receives approval for its RIDASCREEN®FAST DON and FAST Fumonisin test kits from Federal Grain Inspection, Packers and Stockyards Administration of the United States Department of Agriculture (USDA/GIPSA).

The USDA Grain Inspection, Packers and Stockyards Administration (GIPSA) announced that the RIDASCREEN®FAST DON and the RIDASCREEN®FAST Fumonisin test kits, both manufactured by R-Biopharm, have been approved for official testing of the respective mycotoxins in the national grain inspection system.

GIPSA approves the official use of the RIDASCREEN®FAST DON test kit to determine deoxynivalenol in wheat, barley, malted barley, oats and corn. The RIDASCREEN®FAST DON test kit has been assigned COC number 2001-105.

The RIDASCREEN®FAST Fumonisin test kit has been approved for use to determine Fumonisin in corn, corn meal, corn gluten meal, corn germ meal, sorghum and corn/soy blend. The

RIDASCREEN®FAST Fumonisin test kit has been assigned COC number 2001-103.

The RIDASCREEN®FAST mycotoxin tests fully quantitative enzyme immunoassays are based on specific antibodies. The assays come in standard microtitreplate formats with ready-to-use reagents. Multiple samples can be analysed in less than 15 minutes. The test kits provide a unique design for most convenient handling and highest reliability.

For more information about the RIDASCREEN®FAST assays, please contact your local distributor.

For more comprehensive information visit the R-Biopharm websites www.r-biopharm.com or www.r-biopharm.de

Limit values for mycotoxins expected

At the recent Grain Conference of the Grain Research Association in Detmold Dr. Joachim Wolff, from the Federal Institute for Grain, Potato and Fat Research (BAGKF) explained that limit values for Fusaria toxins were soon to be established in the mycotoxin maximum concentration regulations. For dietetic food (baby and infant food) separate limit values will be fixed. Dr. Wolff recommended that in

future only selected raw materials should be used for this target group. Dietetic food limit values are also to be fixed for Ochratoxin A, a mycotoxin formed from storage fungi of the type *Aspergillus* and *Penicillium*.





The table below gives recommendations for maximum concentration values in or on foods. These have been worked out in the interests of preven-

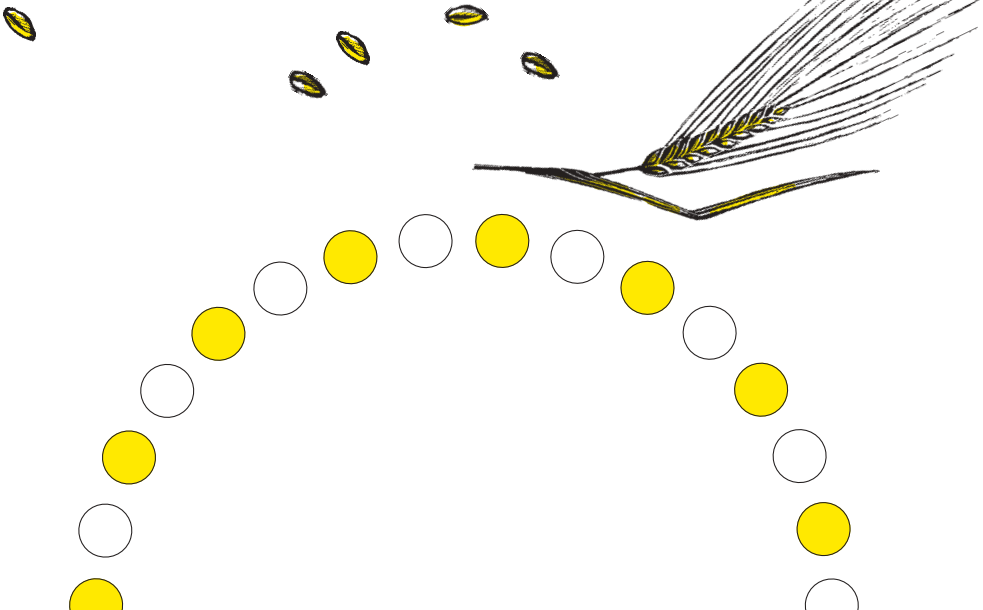
tive consumer protection, and are to be stipulated in future mycotoxin maximum concentration regulations.

Tabelle: Planned limit values for mycotoxins in food Fusaria toxins and Ochratoxin A				
Mycotoxin	PTDI* per kg body weight	Product	Maximum concentration in or on food in µg/kg	Dietetic food in µg/kg
DON (deoxynivalenon, vomitoxin)	1 µg	edible grain cereal products pastries	500	100
		bread and bakery products with > 33% grain content	350	
		baby's first food infant food		
Zearalenone	0,2 µg	edible grain cereal products pastries bread and bakery products	50	20
		baby's first food infant food		
Fumonisin	2 µg	corn and corn products cornflakes	500 100	100
		baby's first food infant food		
Ochratoxin A	5 ng	unpurified grain purified grain	5 3	0.01 0.03
		baby's first food infant food		

*Tolerable daily intake per kg body weight for adults. Source: BML, Bonn

The maximum values for Fusaria toxins have not been uniformly regulated worldwide. For example, in the Netherlands null tolerance still applies to all mycotoxins. On the other hand, in the USA the tolerable DON content in grain and cereal products for food is 1 mg/kg (ppm) and for food, up to 5 mg/kg (ppm).

In Austria contents of 500 µg/kg (ppb) are tolerated for DON in wheat and rye, and 60 µg/kg for zearalenone. In France the tolerable concentration of zearalenone in grain for food is 200 µg/kg (ppb), and in Russia 1 mg/kg (ppm).



Our products

RIDA® QUICK CIS (R 4303)

Test for detection of cow's milk in milk or cheese of other species.

From July 2001 we are offering the RIDA® QUICK CIS test in a modified format. This test is now no longer a fast membrane based assay, but an immunochromatographic test.

The basic principle of this test is still the antigen-antibody reaction. Detection of an addition of cow's milk to sheep's and goat's milk, or to sheep's and goat's cheese, is carried out by determining bovine IgG (antibody class), which is a component of cow's milk.

As in the previous fast membrane based assay, adulteration with cow's milk in ultra high heated products cannot be detected, since the antibodies are destroyed by ultra high heating. Therefore, for detection of cow's milk falsification in ultra high heated products we recommend the RIDASCREEN® Casein test, which is based, not on the detection of antibodies but on the detection of casein. The RIDA® QUICK CIS test is now a test in strip format for 25 determinations. One testkit contains 25 reaction strips, 25 disposable pipettes, 25 test tubes, 6 test tube stands/holder and 10 ml buffer. Sample preparation is very simple; milk samples are used directly in the test, without preliminary treatment, and the result can be read off after 10 minutes. In the case of cheese samples, it is only necessary to homogenize the cheese sample with PBS buffer (which has to be prepared), and then to filter the homogenized sample before using the filtrate in the test.

Assessment is visual, based on the bands formed, and these are easily read off after 10 minutes. With this test, adulteration with cow's milk up to 0.5% can be detected in milk or cheese. The use of monoclonal antibodies in the elaboration of the RIDA® QUICK CIS test assures its high degree of specificity for bovine without undergoing interference by any substance.

A particular advantage of this test is the good storage stability of the product, which is stored at 2 - 30°C. Our current batch is stable in storage up to February 2003.

For more information please contact your local distributor.

RIDASCREEN® Staphylococcus aureus (R 4001)

This agar plate assay, for the determination of Staphylococcus aureus via the identification of thermonuclease, will be taken off the market after sale of the still existing tests.

Enzymatic oxalic acid test combination (UV test) now available again

About one and a half year ago Roche Diagnostics GmbH stopped production and sales of the oxalic acid test combination (former product of Boehringer Mannheim), owing to difficulties in obtaining the enzyme, oxalate decarboxylase, used in the test. Efforts to recommence the enzyme production have been successful, and we are now able to offer you the oxalic acid test combination before its official introduction into the market.

The oxalic acid test combination (UV test) for 10 determinations can be obtained under Art. No.: E 0755699. We would appreciate your understanding that the oxalic acid test is available only in limited quantities in this "pre-introductory phase". We assume that we will be able to give your local distributor further information regarding market introduction by the end of September.

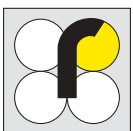
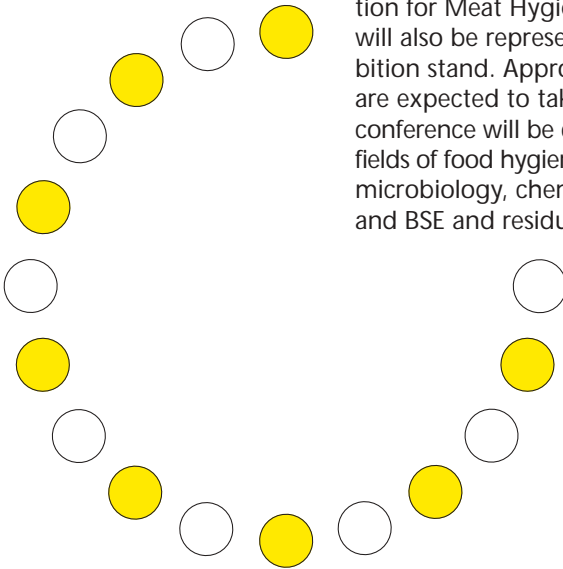
If you require further information, you can either download the product information on our website www.r-biopharm.de or contact your local distributor.

Salin pork 2001

The purpose of the symposium is to provide an international scientific and technical forum for the exchange of information on epidemiology and control of salmonella and other foodborne pathogens in porc. In contrast to previous symposia this symposium will also cover other foodborne pathogens that occur in pork, e. g. *Yersinia enterocolitica*, *Campylobacter sp.*, *Mycobacterium sp.*, EHEC, *Toxoplasma gondii*, *Trichinella spiralis* and other pathogens in pork. This symposium has already been held three times previously, 1996 in Ames, Iowa, 1997 in Copenhagen, Denmark, and 1999 in Washington DC. This year it will take place from 2nd to 5th September in Leipzig. R-Biopharm will be represented at this event with an exhibition stand.

42nd Conference

The 42nd Conference of the German Veterinary Medicinal Association is taking place this year from 25.9. to 28.9. in Garmisch-Partenkirchen. An exhibition is again being held within the framework of this three country conference (jointly with the section Food of Animal Origin of the Austrian Association of Veterinary Surgeons and the Swiss Veterinary Surgeon Association for Meat Hygiene). R-Biopharm will also be represented with an exhibition stand. Approx. 450 specialists are expected to take part, and the conference will be concerned with the fields of food hygiene and control, food microbiology, chemical food analysis and BSE and residue problems.



The next RIDA News will be published during the IV quarter of 2001.

RIDA News is edited by
R-Biopharm GmbH, Dolivostrasse 10, D-64293 Darmstadt
Tel.: +49 61 51 - 81 02 -24 (-25), fax: +49 61 51 - 81 02- 40