

May you find this Christmas inner peace
Equal to the patient love you give,
Releasing all the pain you can release,
Renewing all the grace with which you live.
Yearnings may you turn to rhapsodies,

Choosing to find happiness in beauty,
Holding in their haunting melodies
Riches that sustain your sense of duty.
In anger may you find an evening star
Showing you the way to Bethlehem.
The angels that watch naked from afar
May you hear sing of who would none condemn.
As all you love are blessed in having you
So may you feel the joy in all you do.

**R-Biopharm wish you a Merry Christmas
and a happy, successful New Year 2008**

New Products

RIDASCREEN®FAST Casein (R4602)



Cow's milk contains approx. 3.2 % protein, which consists of 10 % β -lactoglobulin (leading protein of whey) and 80 % caseins. β -lactoglobulin is of major importance as an allergen, especially for children, whereas for adults casein appears to be the dominant allergen. Casein (lat. caseus = cheese) is a rough flaked curdling protein, which forms micells in the milk and precipitates under acidic conditions.

The group of caseins consists of the α_1 -caseins, the β -caseins, the κ -casein and the γ -casein (proteolytic protein fragment of the β -caseins with the protease plasmin occurring naturally in milk). κ -casein is cleaved into a hydrophobic form (para κ -casein) and into a water-soluble polar component (macropeptide) by proteolysis, e.g. by using lab-ferment.

Milk may be present as an ingredient or as a contaminant in raw and processed food products. According to the EU Directive 2003/89/EC of 10.11.2003, milk must be

declared as an ingredient on food labels as it can induce allergic reactions as early as in babyhood. Whey (β -lactoglobulin) or caseinates are often specifically added to foodstuffs (e.g. sausages) therefore it is recommended to determine casein in food.

RIDASCREEN®FAST Casein (R4602) is a sandwich enzyme immunoassay for the quantitative determination of casein in food, such as bakery products, chocolate, sausages, ice cream, wine and other beverages.

With this new test, we are expanding our allergen product segment with an important parameter. RIDASCREEN®FAST Casein is an ELISA in 48-well microtiter plate format. It allows casein determination with brief sample preparation and an incubation time of just 30 minutes. The limit of detection for the test is 0.12 mg/kg (ppm) and the limit of quantification is 0.5 mg/kg (ppm) casein. The monoclonal antibodies used specifically detect α , β and κ -caseins of cow's milk and show no cross reactivity to β -lactoglobulin and to caseins of other animal species (sheep, goat).

RIDASCREEN® CIS-Casein (R5102)

As we now offer a casein test (RIDASCREEN®FAST Casein, R4602) for the quantitative determination of casein in food, there was no other alternative than to rename our previous RIDASCREEN® Casein test (R5102). With the new nomenclature, we hope to have achieved somewhat more clarity in regard to the use of the respective tests.

Since the launch of our new RIDASCREEN®FAST Casein ELISA, the test with the Art. no. R5102 has been renamed **RIDASCREEN® CIS-Casein**.

This competitive enzyme immunoassay is only suitable for the determination of cow casein in sheep and goat milk, cheese and yoghurt and **not** for casein determination in different foodstuffs.

CIS in the respective product names (RIDASCREEN® CIS, RIDA® QUICK CIS, RIDASCREEN® CIS-Casein) stands for Cow in Sheep and all tests with CIS in their name are exclusively suitable for detection of product adulteration of sheep or goat milk (cheese) with cow's milk.

VitaFast® Vitamin analytics

Spiking standards for certain vitamins

Since October we offer spiking standards for the VitaFast® vitamin products. These spiking standards are suitable for spiking foodstuffs, animal feeds and pharmaceutical products. We are therefore supplementing the VitaFast® product line with these important external controls.

The following products are available:

- P3001 VitaFast® Folic Acid Spiking Standard
- P3002 VitaFast® Vitamin B12 (Cyanocobalamin) Spiking Standard

- P3003 VitaFast® Biotin (B7) Spiking Standard
- P3005 VitaFast® Pantothenic Acid Spiking Standard

The advantages of these spiking standards are:

- ready-weighed standards that only have to be dissolved in deionised or distilled water
- easy handling
- time-saving, as weighing is no longer required
- fast identification of interfering matrix effects possible
- certified pure substance

VitaFast® Accessory Kit

We have offered the VitaFast® Accessory Kit (P2001) for some time now. This kit includes sterile vessels, filters and syringes to prepare up to five samples for the VitaFast® tests.

LVU – Collaborative Study

The results of the current collaborative study “Vitamins in children’s foods (2007)”

from LVU are now available. Three laboratories used the microbiological VitaFast® test for the determination of the water-soluble B vitamins B1, B2 and B6. These laboratories all achieved good Z-scores for the vitamin analyses.

Literature reference

The article from E. Oldenburg et al. with the title: “Influence of nitrogen fertilization on deoxynivalenol contamination of winter wheat – Experimental field trials and evaluation of analytical methods” has been published in Mycotoxin Research Vol. 23, No. 1 (2007), 7 – 12. This article describes

the good comparability of the ELISA results obtained with RIDASCREEN® FAST DON (R5901) and HPLC with upstream DONPREP® immunoaffinity column (RBRP50 / RBRP50B) for winter wheat. This article is available from R-Biopharm on request.

If you are interested in our products,

please contact your local distributor.

Information from R-Biopharm Rhône (RBR), Scotland

New Application Notes

Throughout 2007, R-Biopharm Rhône Ltd. has introduced a number of new application notes to be used in conjunction with products in their range. These methods have been developed following both changing legislation to include a wider range of commodities and also in response to customer feedback.

Since January, the following methods have been made available:

OCHRACARD® (RBRP48):

Ochratoxin in cocoa

Ochratoxin in tea

Ochracard for use in animal feed at levels of 50 ppb 100 ppb and 250 ppb

EASI-EXTRACT® Aflatoxin (RBRP71 / RBRP70N):

new method to help improve Aflatoxin G₂ and B₂ recoveries in complex spice matrices

OCHRAPREP® (RBRP14 / RBRP14B):

Ochratoxin in liquorice

EASI-EXTRACT® T-2 and HT-2 (RBRP43 / RBRP43P)

methods on oats

EASI-EXTRACT® Vitamin B12 (RBRP80 / RBRP80B):

range of methods for food, baby food and dairy products

New Format RIDA®QUICK DON STUDY

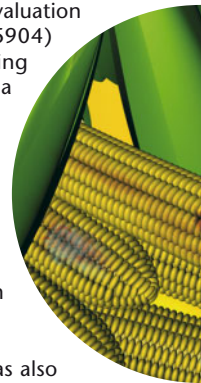
RBR is currently involved in a joint UK DEFRA LINK Food Safety Programme / FSA funded project to assess the Fate of fusarium mycotoxins in the cereal food chain.

The purpose of the project is to monitor fusarium mycotoxins from cereal samples through different types of commercial food processes to a finished food product (i.e. breakfast cereals, bread, extruded snacks and beer). The information generated from this project should help food companies to understand the types of fusarium toxins, which can be present in their food products, allowing them to both comply with the new regulations and to protect the consumer.

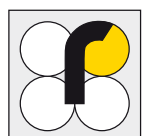
As part of the project a brief evaluation of the RIDA®QUICK DON (R5904) lateral flow device for screening cereals for deoxynivalenol at a 500 ppb level was assessed.

12 participants took part in the study and each lab was provided with 9 blind samples of cereals including wheat, maize, barley and oats contaminated above or below 500 ppb with deoxynivalenol.

One known positive sample was also provided to trialists to allow them to be-



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come familiar with the RIDA®QUICK DON procedure before starting the evaluation.

With RIDA®QUICK DON the presence of a test line following analysis, represents a positive result above the test cut off level. No test line indicates a negative result below the cut off level of the test. The screening level of the test can also be adjusted by changing the sample dilution prior analysis. In the study, out of 108 analyses,

107 RIDA®QUICK DON results agreed with the HPLC reported result. The RIDA®QUICK DON lateral flow device was therefore found to be suitable for screening a range of cereals above or below a 500 ppb level and is recommended for use by the cereal industry.

For further details on the results of this trial, please contact R-Biopharm Rhône Ltd. (carol@r-biopharmrhone.com).

Fairs and conferences

21.01. – 23.01.2008

Rapid Method Europe 2008
Utrecht, Netherlands
Representative: R-Biopharm AG

01.04. – 04.04.2008

Analytica
München, Germany
Representative: R-Biopharm AG



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