



# Catalog 2019

Romer Labs®  
Products and  
Services

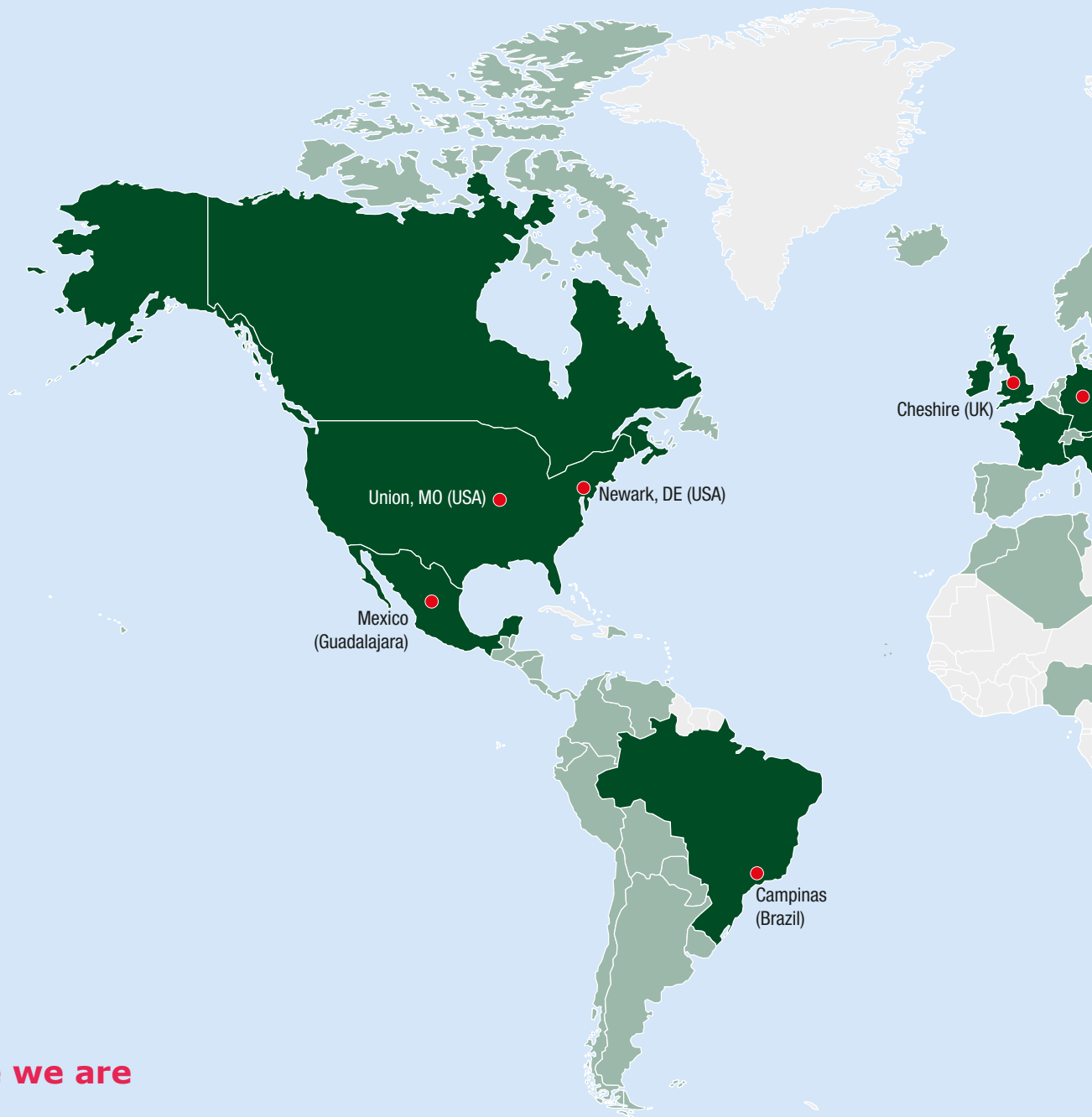
As the prevalence of food allergies grows worldwide, regulations protecting consumers are becoming stricter, making allergen testing an essential element of food safety.



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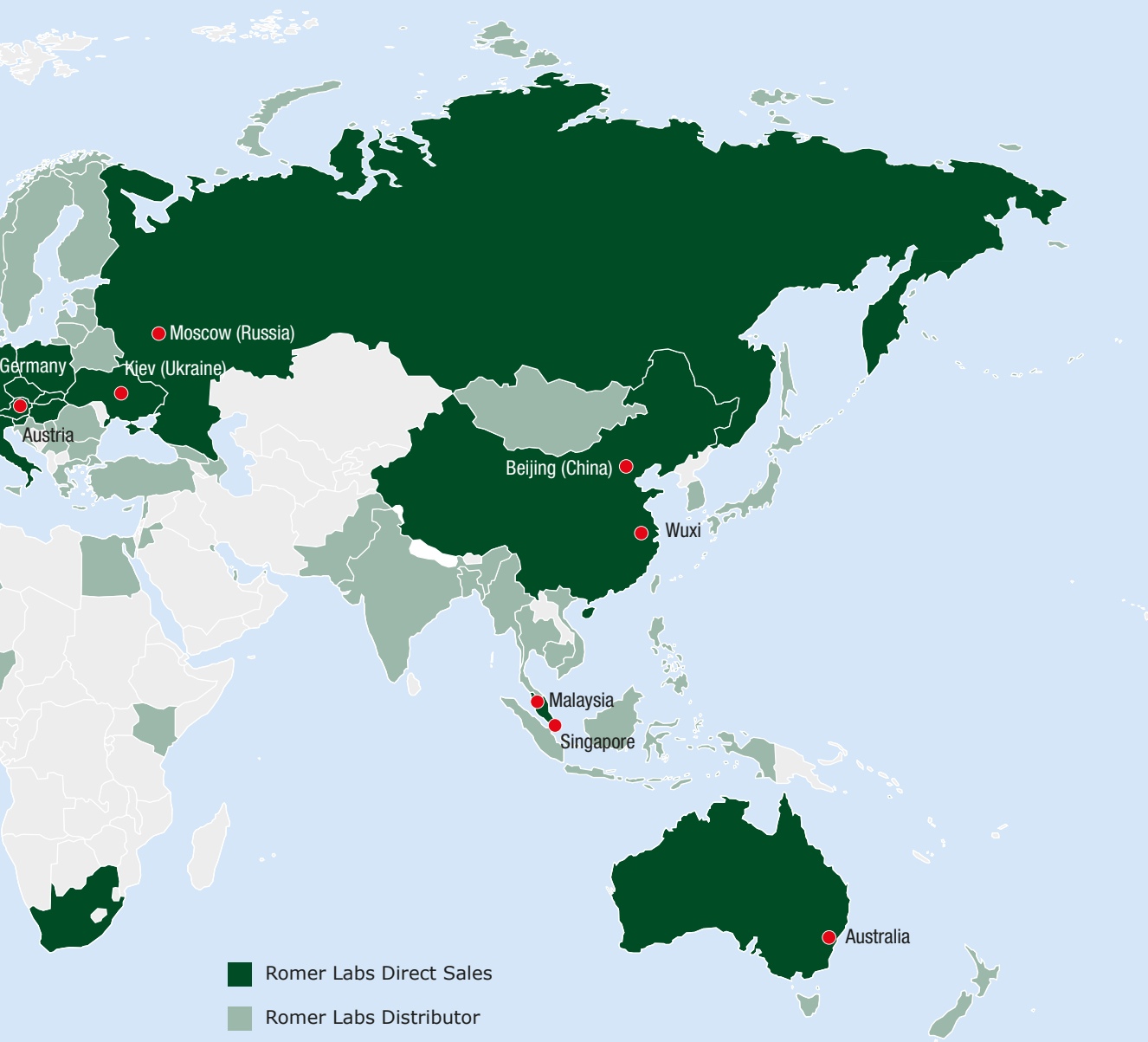
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# Products and Solutions



## AgraQuant® ELISA Tests

AgraQuant® test kits are accurate and reliable enzyme-linked immunosorbent assays (ELISA) for the detection and quantification of mycotoxins, allergens, GMOs and drug residues.

Together with a StatFax® or BioTek® ELISA reader, results can be directly interpreted and continuously documented. A set of five to six standards used for calibration is supplied with all test kits to determine a result. The quality of the antibody is crucial for test result quality. Romer Labs has a broad range of monoclonal and polyclonal antibodies, which are highly specific to the respective analyte and guarantee robust and accurate results.



## AgraStrip® Lateral Flow Devices

The AgraStrip® test kits are ready-to-use lateral flow devices (LFD) for on-site testing. These allow a rapid analysis of a wide range of food and feed samples. AgraStrip® LFDs use specific antibodies labeled with colloidal gold for visual color development at a test and control zone. The test kits are available in a qualitative (yes/no answer for the presence of allergens, mycotoxins, GMO) or quantitative format (mycotoxins, GMO). While qualitative LFDs can be read visually, quantitative tests are used with the AgraVision™ reader to provide objective results and secure the consistent documentation of results.



## RapidChek® Pathogen Detection

The RapidChek® and RapidChek® SELECT™ product lines were developed to deliver the simplicity, speed and high accuracy necessary in everyday pathogen testing without the need for expensive equipment or extensive training.

Our technology sets us apart from other rapid test methods. The RapidChek® product family utilizes highly selective enrichment media coupled to advanced lateral flow immunochemical detection of food pathogens such as *Salmonella* spp., *Listeria monocytogenes*, *Listeria* spp., and *Escherichia coli* O157 in various foodstuffs and environmental applications. Patented phage technology used in the SELECT™ system suppresses the growth of competitive microflora which creates optimal growth conditions for *Salmonella* spp. Highly specific monoclonal and polyclonal antibodies are exclusive to the RapidChek® system.



## MycoSep® and MultiSep® Cleanup Columns

In order to shorten the sample cleanup process, Romer Labs has developed a product portfolio of one-step cleanup columns for different groups of mycotoxins. MycoSep® and MultiSep® columns contain packing materials made of adsorbent mixes designed for all relevant food and feed commodities, allowing cleanup within 30 seconds. The interferences adhere to the chemical packing in the column. The purified extract, containing the analytes of interest, passes through the column.



## StarLine™ Immunoaffinity Columns

StarLine™ immunoaffinity columns are designed for simple and reliable cleanup before detection of mycotoxins in a broad range of different commodities. The columns can be used for the purification as well as concentration of mycotoxins prior to analysis by various techniques, such as HPLC, GC-MS, LC-MS, ELISA or direct fluorometry. All Romer Labs IACs employ highly specific, monoclonal antibodies. The wide range of StarLine™ immunoaffinity columns (IACs) for regulated mycotoxins is based on a specific antibody-analyte binding technology. Toxin-specific antibodies coupled to gel particles capture the mycotoxins in the sample and release them after a washing step.



## MycoSpin® Multi-Mycotoxin Cleanup Columns

Romer Labs has developed a spin column that can be used for all regulated mycotoxins to shorten the time-consuming cleanup process for the simultaneous analysis of multiple mycotoxins. The MycoSpin® 400 Multitoxin spin column contains a combination of adsorbents that was designed for the purification of complex commodity extracts for subsequent LC-MS/MS multi-mycotoxin analysis. This cleanup column has been studied intensively and application briefs are available.



### Analytical Service

Romer Labs currently operates service laboratories in four countries: Austria, Singapore, the United Kingdom and the United States. All these laboratories are accredited according to ISO 17025 and offer a broad range of services for allergens, mycotoxins, GMOs and veterinary drug residues. The Romer Labs service laboratories employ cutting-edge technology and are outfitted with the latest generation of equipment.



### Biopure™ Matrix Reference Materials

Romer Labs offers a range of quality control materials (QCM) for most of the regulated mycotoxins in different contamination levels and matrices. These naturally contaminated materials have been characterized in-house using an ISO 17025-accredited LC-MS/MS method. All products come with a certificate of analysis.



### Surface Sampling Solutions

The environment is a principal source of microbiological contamination within a food processing facility. At the same time, in livestock farming, the environment can indicate whether a farm safety program is functioning as it should. Environmental testing has therefore become a crucial part of any food and feed safety program. With a strong focus on environmental testing, Romer Labs provides a broad range of sampling solutions covering both food production and livestock farming applications.



### Biopure™ Calibrants

Biopure™ calibrants are high-quality reference materials characterized by appropriate independent methods, like HPLC, NMR and LC-MS/MS. This ensures the identity and purity of the reference materials. The reference materials are accompanied by certificates, created in accordance with ISO Guide 31. This includes stating the uncertainty of the target analyte and documenting the traceability of the certified value. Biopure™ calibrants are available in liquid "ready-to-use" and crystalline forms, and as single calibrants as well as calibrant mixtures. Customized calibrants are available upon request. Biopure™ has the broadest range of mycotoxin reference materials currently available globally. In addition, calibrants for veterinary drug residues and other contaminants are supplied. The stars of the Biopure™ product line are the fully labeled <sup>13</sup>C internal standards for mass spectrometry analysis. These unique calibrants are available for all regulated mycotoxins and rely on a patented technology, proprietary to Romer Labs.



### Laboratory Equipment

Romer Labs aims to provide full setup packages for its diagnostic solutions. Using the right equipment is essential for correct application of a method. Romer Labs provides a series of readers for its rapid test kits, such as the AgraVision™ (for lateral flow tests) or the BioTek® (for ELISA tests). For instrumental analysis, Romer Labs has different instruments available that help improve method performance, such as the RDU (Romer® Derivatization Unit) used for aflatoxin analysis in HPLC-FLD. Romer laboratory mills have set the standard in sample preparation in mycotoxin analysis for over 25 years and are referenced in numerous official methods (AOAC, USDA, FAO, etc.) and scientific publications. Many multinational food and feed companies use Romer Labs mills in their daily routine and the products are known for their reliability and robustness.



### HygieneChek™ Dip-Slides

Romer Labs HygieneChek™ is an easy-to-use, reliable and economic microbiological testing system. HygieneChek™ is a double-sided agar paddle used to detect and identify various microorganisms commonly found in foods, cosmetics and pharmaceuticals. Microbiological samples can be taken from liquids and surfaces directly in the processing environment (including production lines), kitchens, cafeterias, supermarkets, military areas and clean rooms. It can also be used for air sampling.

Mycotoxins are secondary metabolites of different fungi. Their presence is often inevitable as these are natural contaminants of crop plants and fruits. Such contaminated materials are toxic to humans and animals, and hence, a major health issue for the consumer.

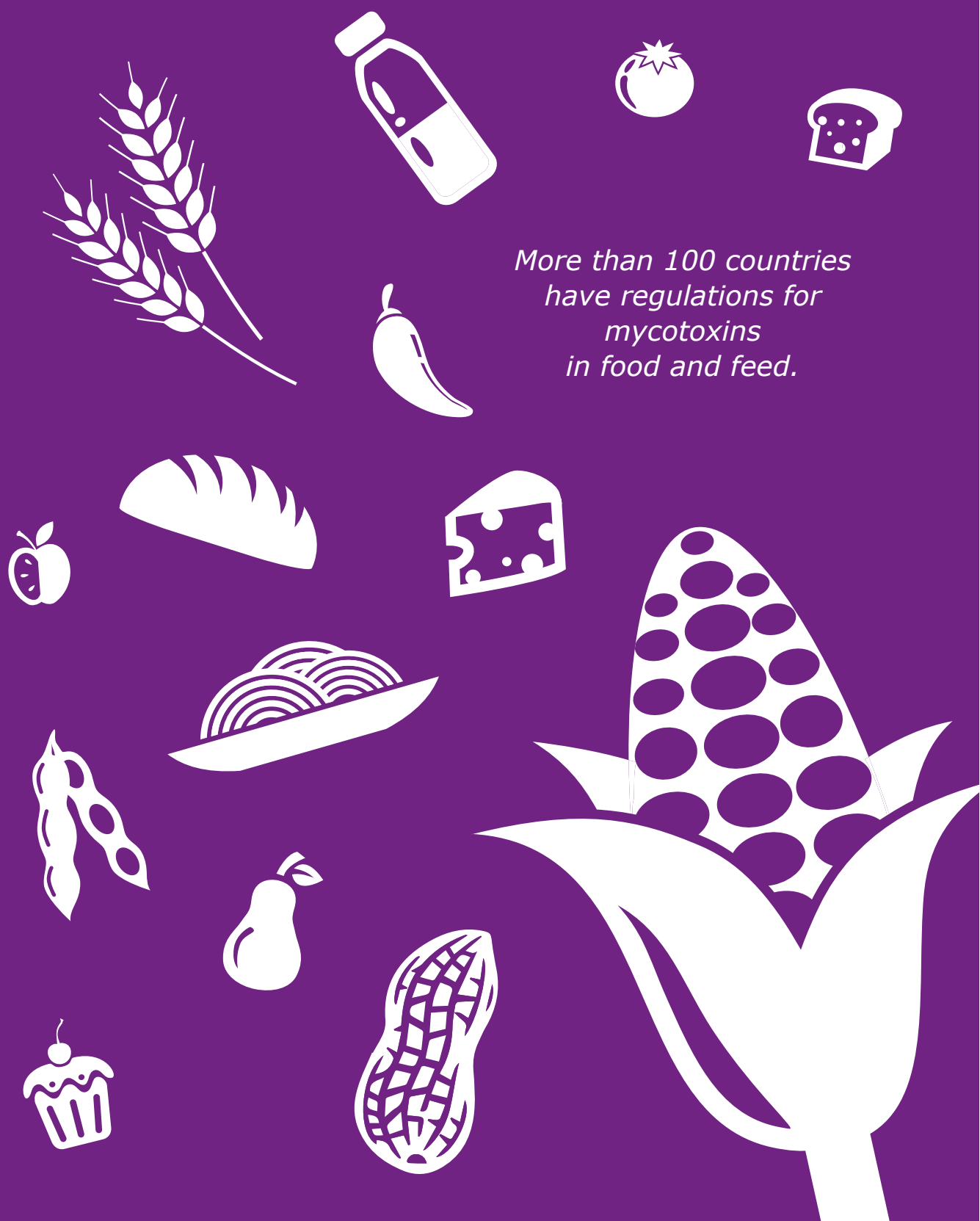
Analytical procedures to find and identify mycotoxins are essential in ensuring proper risk management. With more than 30 years of experience in this area, Romer Labs provides the broadest range of mycotoxin testing solutions that allows customers to cover the whole production process.

In addition to rapid methods such as on-site lateral flow devices and laboratory based ELISAs, Romer Labs offers reference testing methods and necessary equipment, ranging from cleanup columns and reference materials to a huge portfolio of analytical service analyses.



Romer Labs® Testing Solutions

# Mycotoxins



*More than 100 countries  
have regulations for  
mycotoxins  
in food and feed.*

# Mycotoxins RAPID TESTS



## AgraQuant® ELISA Tests

| Item No.  | Product                                  | Quantitation Range | Limit of Detection | No. of Wells |
|-----------|--|--------------------|--------------------|--------------|
| COKAQ1000 | AgraQuant® Aflatoxin                     | 4 – 40 ppb         | 3 ppb              | 96           |
| COKAQ1048 | AgraQuant® Aflatoxin                     | 4 – 40 ppb         | 3 ppb              | 48           |
| COKAQ1100 | AgraQuant® Aflatoxin <sup>2</sup>        | 1 – 20 ppb         | 1 ppb              | 96           |
| COKAQ1148 | AgraQuant® Aflatoxin <sup>2</sup>        | 1 – 20 ppb         | 1 ppb              | 48           |
| COKAQ7100 | AgraQuant® Aflatoxin M1 Sensitive        | 25 – 500 ppt       | 18 ppt             | 96           |
| COKAQ7148 | AgraQuant® Aflatoxin M1 Sensitive        | 25 – 500 ppt       | 18 ppt             | 48           |
| COKAQ7200 | AgraQuant® Aflatoxin M1 Plus             | 100 – 2000 ppt     | 89 ppt             | 96           |
| COKAQ7248 | AgraQuant® Aflatoxin M1 Plus             | 100 – 2000 ppt     | 89 ppt             | 48           |
| COKAQ7300 | AgraQuant® Aflatoxin M1 High Sensitivity | 5 – 100 ppt        | 2.9 ppt            | 96           |
| COKAQ7348 | AgraQuant® Aflatoxin M1 High Sensitivity | 5 – 100 ppt        | 2.9 ppt            | 48           |
| COKAQ8000 | AgraQuant® Aflatoxin B1                  | 2 – 50 ppb         | 2 ppb              | 96           |
| COKAQ8048 | AgraQuant® Aflatoxin B1                  | 2 – 50 ppb         | 2 ppb              | 48           |
| COKAQ2000 | AgraQuant® Ochratoxin                    | 2 – 40 ppb         | 1.9 ppb            | 96           |
| COKAQ2048 | AgraQuant® Ochratoxin                    | 2 – 40 ppb         | 1.9 ppb            | 48           |
| COKAQ3000 | AgraQuant® Fumonisin                     | 250 – 5000 ppb     | 200 ppb            | 96           |
| COKAQ3048 | AgraQuant® Fumonisin                     | 250 – 5000 ppb     | 200 ppb            | 48           |
| COKAQ4000 | AgraQuant® Deoxynivalenol <sup>2,3</sup> | 250 – 5000 ppb     | 200 ppb            | 96           |
| COKAQ4048 | AgraQuant® Deoxynivalenol <sup>2,3</sup> | 250 – 5000 ppb     | 200 ppb            | 48           |
| COKAQ5100 | AgraQuant® Zearalenone Plus              | 25 – 1000 ppb      | 20 ppb             | 96           |
| COKAQ5148 | AgraQuant® Zearalenone Plus              | 25 – 1000 ppb      | 20 ppb             | 48           |
| COKAQ6000 | AgraQuant® T-2 Toxin                     | 20 – 500 ppb       | 10 ppb             | 96           |
| COKAQ6048 | AgraQuant® T-2 Toxin                     | 20 – 500 ppb       | 10 ppb             | 48           |



## AgraStrip® Lateral Flow Devices

| Item No.    | Product  | Quantitation Range | Limit of Detection | No. of Tests |
|-------------|--|--------------------|--------------------|--------------|
| COKAS1100   | AgraStrip® Total Aflatoxin <sup>2</sup> -<br>excl. Whirl-Pak® bag                    | cut-off 4 ppb      | -                  | 24           |
| COKAS1100U  | AgraStrip® Total Aflatoxin <sup>2</sup>  | cut-off 4 ppb      | -                  | 24           |
| COKAS1200   | AgraStrip® Total Aflatoxin <sup>1</sup> -<br>excl. Whirl-Pak® bag                    | cut-off 10 ppb     | -                  | 24           |
| COKAS1200U  | AgraStrip® Total Aflatoxin <sup>1</sup>  | cut-off 10 ppb     | -                  | 24           |
| COKAS1000   | AgraStrip® Total Aflatoxin <sup>1</sup> -<br>excl. Whirl-Pak® bag                    | cut-off 20 ppb     | -                  | 24           |
| COKAS1000U  | AgraStrip® Total Aflatoxin <sup>1</sup>  | cut-off 20 ppb     | -                  | 24           |
| COKAS1500A  | AgraStrip® Aflatoxin M1 Quantitative   | 0 – 600 ppt        | 43 ppt             | 24           |
| COKAS1600WS | AgraStrip® WATEX® Total Aflatoxin<br>Quantitative - 10 g Extraction Kit              | 0 – 500 ppb        | 3.31 ppb           | 24           |
| COKAS1600W  | AgraStrip® WATEX® Total Aflatoxin <sup>1</sup><br>Quantitative - 50 g Extraction Kit | 0 – 500 ppb        | 3.31 ppb           | 24           |
| COKAS4000WS | AgraStrip® WATEX® Deoxynivalenol<br>Quantitative - 10 g Extraction Kit               | 0 – 30 000 ppb     | 100 ppb            | 24           |
| COKAS4000W  | AgraStrip® WATEX® Deoxynivalenol<br>Quantitative - 50 g Extraction Kit               | 0 – 30 000 ppb     | 100 ppb            | 24           |
| COKAS3000WS | AgraStrip® WATEX® Total Fumonisin<br>Quantitative - 10 g Extraction Kit              | 0 – 100 000 ppb    | 150 ppb            | 24           |
| COKAS3000W  | AgraStrip® WATEX® Total Fumonisin <sup>1</sup><br>Quantitative - 50 g Extraction Kit | 0 – 30 000 ppb     | 150 ppb            | 24           |
| COKAS5000WS | AgraStrip® WATEX® Zearalenone<br>Quantitative - 10 g Extraction Kit                  | 0 – 1000 ppb       | 30 ppb             | 24           |
| COKAS5000W  | AgraStrip® WATEX® Zearalenone <sup>1</sup><br>Quantitative - 50 g Extraction Kit     | 0 – 1000 ppb       | 30 ppb             | 24           |

<sup>1</sup>USDA/GIPSA approved

<sup>2</sup>Japanese Department of Agriculture approved

<sup>3</sup>AOAC RI approved

# Mycotoxins CLEANUP COLUMNS



## StarLine™ Immunoaffinity Columns

| Item No.  | Product        | Specificity                | Format | No. of Columns |
|-----------|----------------|----------------------------|--------|----------------|
| COIAC1001 | AflaStar™ FIT  | Aflatoxins B1, B2, G1 & G2 | 1 mL   | 25             |
| COIAC1004 | AflaStar™ R    | Aflatoxins B1, B2, G1 & G2 | 3 mL   | 25             |
| COIAC1005 | AflaStar™ M1 R | Aflatoxin M1               | 3 mL   | 25             |
| COIAC1501 | AflaStar™ FIT  | Aflatoxins B1, B2, G1 & G2 | 1 mL   | 500            |
| COIAC1504 | AflaStar™ R    | Aflatoxins B1, B2, G1 & G2 | 3 mL   | 500            |
| COIAC2001 | OchraStar™ FIT | Ochratoxin A               | 1 mL   | 25             |
| COIAC2004 | OchraStar™ R   | Ochratoxin A               | 3 mL   | 25             |
| COIAC3000 | FumoniStar™    | Fumonisin B1, B2, B3       | 3 mL   | 25             |
| COIAC4004 | ZearaStar™ R   | Zearalenone                | 3 mL   | 25             |
| COIAC5000 | DONStar™       | Deoxynivalenol             | 3 mL   | 25             |
| COIAC6004 | T2/HT2 Star™ R | T2 Toxin, HT2 Toxin        | 3 mL   | 25             |



## MycoSep® & MultiSep® Cleanup Columns



| Item No.        | Product                            | Specificity  | No. of Columns |
|-----------------|------------------------------------|--|----------------|
| <b>MycoSep®</b> |                                    |  |                |
| COCMY2112       | MycoSep® 112 AflaZon               | Aflatoxins B1, B2, G1 & G2,<br>Zearalenone, Zearalenol, Zearalanol | 25             |
| COCMY2113       | MycoSep® 113 Trich <sup>4,5</sup>  | Trichothecenes, Type A & B   | 25             |
| COCMY2150       | MycoSep® 150 Ergot                 | Ergot Alkaloids  | 25             |
| COCMY2224       | MycoSep® 224 AflaZon <sup>4</sup>  | Aflatoxins B1, B2, G1 & G2,<br>Zearalenone, Zearalenol, Zearalanol | 25             |
| COCMY2225       | MycoSep® 225 Trich                 | Trichothecenes, Type A & B   | 25             |
| COCMY2226       | MycoSep® 226 AflaZon+              | Aflatoxins B1, B2, G1 & G2,<br>Zearalenone, Zearalenol, Zearalanol | 25             |
| COCMY2227       | MycoSep® 227 Trich+ <sup>4,5</sup> | Trichothecenes, Type A & B   | 25             |
| COCMY2228       | MycoSep® 228 AflaPat <sup>5</sup>  | Aflatoxins B1, B2, G1 & G2, Patulin                                | 25             |
| COCMY2229       | MycoSep® 229 Ochra                 | Ochratoxin A   | 25             |
| COCMY2230       | MycoSep® 230 Niv                   | Nivalenol  | 25             |
| COCMY2231       | MycoSep® 231 Fum                   | Fumonisin B1, B2 & B3  | 25             |
| COCMY2240       | MycoSep® 240 Mon                   | Moniliformin   | 25             |

### MultiSep®

|           |                                     |  |    |
|-----------|-------------------------------------|--|----|
| COCMU2211 | MultiSep® 211 Fum                   | Fumonisin B1, B2 & B3  | 25 |
| COCMU2216 | MultiSep® 216                       | Trichothecenes, Type A & B   | 25 |
| COCMU2224 | MultiSep® 224 AflaZon               | Aflatoxins B1, B2, G1 & G2,<br>Zearalenone, Zearalenol, Zearalanol | 25 |
| COCMU2225 | MultiSep® 225 Trich                 | Trichothecenes, Type A & B   | 25 |
| COCMU2226 | MultiSep® 226 AflaZon+              | Aflatoxins B1, B2, G1 & G2,<br>Zearalenone, Zearalenol, Zearalanol | 25 |
| COCMU2227 | MultiSep® 227 Trich+ <sup>4,5</sup> | Trichothecenes, Type A & B   | 25 |
| COCMU2228 | MultiSep® 228 AflaPat <sup>5</sup>  | Aflatoxins B1, B2, G1 & G2, Patulin                                | 25 |
| COCMU2229 | MultiSep® 229 Ochra                 | Ochratoxin A   | 25 |
| COCMU2230 | MultiSep® 230 Niv                   | Nivalenol  | 25 |



## MycoSpin® Cleanup Column

| Item No.  | Product                  | Specificity   | No. of Columns |
|-----------|--------------------------|---|----------------|
| COCMY2400 | MycoSpin® 400 Multitoxin | Aflatoxin B1, B2, G1 & G2,<br>Trichothecenes Type A & B,<br>Zearalenone, Ochratoxin A,<br>Fumonisin B1, B2 & B3 | 25             |

<sup>4</sup> AOAC official method

<sup>5</sup> Japanese official method

# Mycotoxins REFERENCE MATERIALS



## Biopure™ Reference Materials

| Item No.                   | Product  | Amount            |
|----------------------------|--|-------------------|
| <b>Calibrant Solutions</b> |  |                   |
| LMY-088-1ML                | 15-Acetoxy-scirpenol (50 µg/mL) in acetonitrile                  | 1 mL on request   |
| 002014                     | 15-Acetyl-Deoxynivalenol (15-AcDON) (100 µg/mL) in acetonitrile  | 5 mL              |
| S02014                     | 15-Acetyl-Deoxynivalenol (15-AcDON) (100 µg/mL) in acetonitrile  | 1 mL              |
| 002012                     | 3-Acetyl-Deoxynivalenol (3-AcDON) (100 µg/mL) in acetonitrile    | 5 mL              |
| S02012                     | 3-Acetyl-Deoxynivalenol (3-AcDON) (100 µg/mL) in acetonitrile    | 1 mL              |
| 002017                     | Aflatoxin B1 (AFB1) (2 µg/mL) in acetonitrile                    | 5 mL              |
| S02017                     | Aflatoxin B1 (AFB1) (2 µg/mL) in acetonitrile                    | 1 mL              |
| 002018                     | Aflatoxin B2 (AFB2) (0.5 µg/mL) in acetonitrile                  | 5 mL              |
| S02018                     | Aflatoxin B2 (AFB2) (0.5 µg/mL) in acetonitrile                  | 1 mL              |
| 002019                     | Aflatoxin G1 (AFG1) (2 µg/mL) in acetonitrile                    | 5 mL              |
| S02019                     | Aflatoxin G1 (AFG1) (2 µg/mL) in acetonitrile                    | 1 mL              |
| 002020                     | Aflatoxin G2 (AFG2) (0.5 µg/mL) in acetonitrile                  | 5 mL              |
| S02020                     | Aflatoxin G2 (AFG2) (0.5 µg/mL) in acetonitrile                  | 1 mL              |
| 002030                     | Aflatoxin M1 (AFM1) (0.5 µg/mL) in acetonitrile                  | 5 mL              |
| S02030                     | Aflatoxin M1 (AFM1) (0.5 µg/mL) in acetonitrile                  | 1 mL              |
| S02054                     | Alpha-Zearalanol (Zeranol) (10 µg/mL) in acetonitrile            | 1 mL              |
| S02042                     | Alpha-Zearalanol (10 µg/mL) in acetonitrile                      | 1 mL              |
| S02076                     | Alternariol (100 µg/mL) dried down                               | 1 mL              |
| S02077                     | Alternariolmethylether (100 µg/mL) dried down                    | 1 mL              |
| S02096                     | Altenuene (10 µg/mL) in acetonitrile                             | 1 mL              |
| S02097                     | Altartoxin I (10 µg/mL) in acetonitrile                          | 1 mL              |
| LMY-056-1ML                | Beauvericin (100 µg/mL) dried down                               | 1 mL              |
| S02055                     | Beta-Zearalanol (Taleranol) (10 µg/mL) in acetonitrile           | 1 mL              |
| S02043                     | Beta-Zearalanol (10 µg/mL) in acetonitrile                       | 1 mL              |
| S02063                     | Citrinin (100 µg/mL) in acetonitrile                             | 1 mL              |
| LMY-095-1ML                | Cyclopiazonic Acid (100 µg/mL) in acetonitrile                   | 1 mL on request   |
| 002033                     | Deepoxy-Deoxynivalenol (50 µg/mL) in acetonitrile                | 5 mL              |
| S02033                     | Deepoxy-Deoxynivalenol (50 µg/mL) in acetonitrile                | 1 mL              |
| 002009                     | Deoxynivalenol (DON) (100 µg/mL) in acetonitrile                 | 5 mL              |
| S02009                     | Deoxynivalenol (DON) (100 µg/mL) in acetonitrile                 | 1 mL              |
| S02046                     | Deoxynivalenol-3-Glucoside (DON3G) (50 µg/mL) in acetonitrile    | 1 mL              |
| 002037                     | Diacetoxyscirpenol (DAS) (100 µg/mL) in acetonitrile             | 5 mL              |
| S02037                     | Diacetoxyscirpenol (DAS) (100 µg/mL) in acetonitrile             | 1 mL              |
| 002003                     | Fumonisin B1 (FB1) (50 µg/mL) in acetonitrile/water              | 5 mL              |
| S02003                     | Fumonisin B1 (FB1) (50 µg/mL) in acetonitrile/water              | 1 mL              |
| LMY-087-1ML                | Fumonisin B1, hydrolyzed (HFB1) (25 µg/mL) in acetonitrile/water | 1 mL on request   |
| 002004                     | Fumonisin B2 (FB2) (50 µg/mL) in acetonitrile/water              | 5 mL              |
| S02004                     | Fumonisin B2 (FB2) (50 µg/mL) in acetonitrile/water              | 1 mL              |
| S02007                     | Fumonisin B3 (FB3) (50 µg/mL) in acetonitrile/water              | 1 mL              |
| 002010                     | Fusarenon X (FusX) (100 µg/mL) in acetonitrile                   | 5 mL              |
| S02010                     | Fusarenon X (FusX) (100 µg/mL) in acetonitrile                   | 1 mL              |
| 002036                     | HT-2 Toxin (HT-2) (100 µg/mL) in acetonitrile                    | 5 mL              |
| S02036                     | HT-2 Toxin (HT-2) (100 µg/mL) in acetonitrile                    | 1 mL              |
| S02058                     | Moniliformin (MON) (100 µg/mL) in acetonitrile/water             | 1 mL              |
| S02049                     | Mycophenolic acid (100 µg/mL) in acetonitrile                    | 1 mL on request   |
| 002001                     | Neosolaniol (NEO) (100 µg/mL) in acetonitrile                    | 5 mL              |
| S02001                     | Neosolaniol (NEO) (100 µg/mL) in acetonitrile                    | 1 mL              |
| 002011                     | Nivalenol (NIV) (100 µg/mL) in acetonitrile                      | 5 mL              |
| S02011                     | Nivalenol (NIV) (100 µg/mL) in acetonitrile                      | 1 mL              |
| 002023                     | Ochratoxin A (OTA) (10 µg/mL) in acetonitrile                    | 5 mL              |
| S02023                     | Ochratoxin A (OTA) (10 µg/mL) in acetonitrile                    | 1 mL              |
| S02052                     | Ochratoxin B (OTB) (10 µg/mL) in acetonitrile                    | 1 mL              |
| S02053                     | Ochratoxin-alpha (OTa) (10 µg/mL) in acetonitrile                | 1 mL              |
| 002026                     | Patulin (PAT) (100 µg/mL) in acetonitrile                        | 5 mL              |
| S02026                     | Patulin (PAT) (100 µg/mL) in acetonitrile                        | 1 mL              |
| LMY-091-1.2ML              | Secalonic Acid D (50 µg/mL) in chloroform                        | 1.2 mL on request |

# Mycotoxins REFERENCE MATERIALS



## Biopure™ Reference Materials

| Item No.                   | Product                                      | Amount          |
|----------------------------|--|-----------------|
| <b>Calibrant Solutions</b> |  |                 |
| 002051                     | Sterigmatocystin (50 µg/mL) in acetonitrile  | 5 mL            |
| S02051                     | Sterigmatocystin (50 µg/mL) in acetonitrile  | 1 mL            |
| S02048                     | T-2 Tetraol (50 µg/mL) in acetonitrile       | 1 mL on request |
| 002035                     | T-2 Toxin (T-2) (100 µg/mL) in acetonitrile  | 5 mL            |
| S02035                     | T-2 Toxin (T-2) (100 µg/mL) in acetonitrile  | 1 mL            |
| S02047                     | T-2 Triol (50 µg/mL) in acetonitrile         | 1 mL            |
| S02078                     | Tentoxin (100 µg/mL) dried down              | 1 mL            |
| LMY-080-1ML                | Tenuazonic acid (100 µg/mL) dried down       | 1 mL            |
| S02041                     | Zearalanone (ZAN) (10 µg/mL) in acetonitrile | 1 mL            |
| 002029                     | Zearalenone (100 µg/mL) in acetonitrile      | 5 mL            |
| S02029                     | Zearalenone (100 µg/mL) in acetonitrile      | 1 mL            |

### Ergot Alkaloids<sup>†</sup>

|             |   |                   |
|-------------|---|-------------------|
| LMY-085-5ML | Dihydroergocristine (100 µg/mL), dried down | 0.5 mg on request |
| 002064      | Ergocornine (100 µg/mL), dried down         | 0.5 mg            |
| 002072      | Ergocorninine (25 µg/mL), dried down        | 0.125 mg          |
| 002065      | Ergocristine (100 µg/mL), dried down        | 0.5 mg            |
| 002073      | Ergocristinine (25 µg/mL), dried down       | 0.125 mg          |
| 002066      | Ergocryptine (100 µg/mL), dried down        | 0.5 mg            |
| 002074      | Ergocryptinine (25 µg/mL), dried down       | 0.125 mg          |
| 002067      | Ergometrine (100 µg/mL), dried down         | 0.5 mg            |
| LMY-090-5ML | Ergometrinine (25 µg/mL), dried down        | 0.125 mg          |
| 002068      | Ergosine (100 µg/mL), dried down            | 0.5 mg            |
| LMY-089-5ML | Ergosinine (25 µg/mL), dried down           | 0.125 mg          |
| 002069      | Ergotamine (100 µg/mL), dried down          | 0.5 mg            |
| 002075      | Ergotaminine (25 µg/mL), dried down         | 0.125 mg          |

<sup>†</sup> stated concentration after reconstitution in 5 mL of solvent

### Calibrant Mixtures

|             |   |      |
|-------------|---|------|
| 002021      | MIX 1 (Aflatoxins: 2 µg/mL Aflatoxin B1, 2 µg/mL Aflatoxin G1, 0.5 µg/mL Aflatoxin B2, 0.5 µg/mL Aflatoxin G2 in acetonitrile)  | 5 mL |
| S02021      | MIX 1 (Aflatoxins: 2 µg/mL Aflatoxin B1, 2 µg/mL Aflatoxin G1, 0.5 µg/mL Aflatoxin B2, 0.5 µg/mL Aflatoxin G2 in acetonitrile)  | 1 mL |
| 002016      | MIX 2 (B-Tricothecenes: 100 µg/mL each of Deoxynivalenol, Nivalenol, 3-Acetyl-Deoxynivalenol, 15-Acetyl-Deoxynivalenol in acetonitrile)   | 5 mL |
| S02016      | MIX 2 (B-Tricothecenes: 100 µg/mL each of Deoxynivalenol, Nivalenol, 3-Acetyl-Deoxynivalenol, 15-Acetyl-Deoxynivalenol in acetonitrile)   | 1 mL |
| 002006      | MIX 3 (Fumonisin: 50 µg/mL each Fumonisin B1, Fumonisin B2 in acetonitrile/water)   | 5 mL |
| S02006      | MIX 3 (Fumonisin: 50 µg/mL each Fumonisin B1, Fumonisin B2 in acetonitrile/water)   | 1 mL |
| 002002      | MIX 4 (A- & B-Tricothecenes: 10 µg/mL each 3-Acetyl-Deoxynivalenol, Deoxynivalenol, Nivalenol, Fusarenon X, HT-2 Toxin, T-2 Toxin, Diacetoxyscirpenol, Zearalenone in acetonitrile) | 5 mL |
| S02002      | MIX 4 (A- & B-Tricothecenes: 10 µg/mL each 3-Acetyl-Deoxynivalenol, Deoxynivalenol, Nivalenol, Fusarenon X, HT-2 Toxin, T-2 Toxin, Diacetoxyscirpenol, Zearalenone in acetonitrile) | 1 mL |
| 002022      | MIX 5 (Aflatoxins: 0.25 µg/mL each Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2 in acetonitrile)  | 6 mL |
| S02022      | MIX 5 (Aflatoxins: 0.25 µg/mL each Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2 in acetonitrile)  | 1 mL |
| LMY-093-5mL | MIX 8 (Fusarium Toxins: 100 µg/mL Deoxynivalenol, 100 µg/mL HT-2Toxin, 5 mL on request 10 µg/mL T-2 Toxin, 30 µg/mL Zearalenone in acetonitrile)                                    |      |
| LMY-092-5mL | MIX 9 (Aflatoxins: 1 µg/mL each Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2 in acetonitrile)   | 5 mL |

# Mycotoxins REFERENCE MATERIALS



## Biopure™ Reference Materials

| Item No.                                 | Product   | Amount            |
|--|---|-------------------|
| <b>Stable Isotope Labeled Calibrants</b> |   |                   |
| ILM006                                   | U-[ <sup>13</sup> C <sub>17</sub> ]-3-Acetyl-Deoxynivalenol (25 µg/mL) in acetonitrile    | 1.2 mL            |
| ILM010                                   | U-[ <sup>13</sup> C <sub>17</sub> ]-Aflatoxin B1 (0.5 µg/mL) in acetonitrile              | 1.2 mL            |
| ILM011                                   | U-[ <sup>13</sup> C <sub>17</sub> ]-Aflatoxin B2 (0.5 µg/mL) in acetonitrile              | 1.2 mL            |
| ILM012                                   | U-[ <sup>13</sup> C <sub>17</sub> ]-Aflatoxin G1 (0.5 µg/mL) in acetonitrile              | 1.2 mL            |
| ILM013                                   | U-[ <sup>13</sup> C <sub>17</sub> ]-Aflatoxin G2 (0.5 µg/mL) in acetonitrile              | 1.2 mL            |
| ILM029                                   | U-[ <sup>13</sup> C <sub>17</sub> ]-15-Acetyl-Deoxynivalenol (10 µg/mL) in acetonitrile   | 1.2 mL            |
| ILM-021-1.2ML                            | U-[ <sup>13</sup> C <sub>17</sub> ]-Aflatoxin M1 (0.5 µg/mL) in acetonitrile              | 1.2 mL            |
| ILM026-1.2ML                             | U-[ <sup>13</sup> C <sub>13</sub> ]-Citrinin (10 µg/mL) in acetonitrile                   | 1.2 mL            |
| ILM027-1.2ML                             | U-[ <sup>13</sup> C <sub>20</sub> ]-Cyclopiazonic acid (10 µg/mL) in acetonitrile         | 1.2 mL on request |
| ILM-020-1.2ML                            | U-[ <sup>13</sup> C <sub>19</sub> ]-Diacetoxyscirpenol (25 µg/mL) in acetonitrile         | 1.2 mL            |
| ILM028                                   | U-[ <sup>13</sup> C <sub>21</sub> ]-Deoxynivalenol-3-Glucoside (10 µg/mL) in acetonitrile | 1.2 mL            |
| 002005                                   | U-[ <sup>13</sup> C <sub>15</sub> ]-Deoxynivalenol (25 µg/mL) in acetonitrile             | 1.2 mL            |
| ILM003                                   | U-[ <sup>13</sup> C <sub>34</sub> ]-Fumonisin B1 (25 µg/mL) in acetonitrile/water         | 1.2 mL            |
| ILM004                                   | U-[ <sup>13</sup> C <sub>34</sub> ]-Fumonisin B2 (10 µg/mL) in acetonitrile/water         | 1.2 mL            |
| ILM005                                   | U-[ <sup>13</sup> C <sub>34</sub> ]-Fumonisin B3 (10 µg/mL) in acetonitrile/water         | 1.2 mL            |
| ILM008                                   | U-[ <sup>13</sup> C <sub>22</sub> ]-HT-2 Toxin (25 µg/mL) in acetonitrile                 | 1.2 mL            |
| ILM007                                   | U-[ <sup>13</sup> C <sub>20</sub> ]-Ochratoxin A (10 µg/mL) in acetonitrile               | 1.2 mL            |
| ILM-015-1.2ML                            | U-[ <sup>13</sup> C <sub>7</sub> ]-Patulin (25 µg/mL) in acetonitrile                     | 1.2 mL            |
| ILM014                                   | U-[ <sup>13</sup> C <sub>7</sub> ]-Mycophenolic acid (100 µg/mL) in acetonitrile          | 1.2 mL on request |
| ILM-019-1.2ML                            | U-[ <sup>13</sup> C <sub>15</sub> ]-Nivalenol (25 µg/mL) in acetonitrile                  | 1.2 mL            |
| ILM-017-1.2ML                            | U-[ <sup>13</sup> C <sub>18</sub> ]-Sterigmatocystin (25 µg/mL) in acetonitrile           | 1.2 mL            |
| 002044                                   | U-[ <sup>13</sup> C <sub>24</sub> ]-T-2 Toxin (25 µg/mL) in acetonitrile                  | 1.2 mL            |
| ILM009                                   | U-[ <sup>13</sup> C <sub>18</sub> ]-Zearalenone (25 µg/mL) in acetonitrile                | 1.2 mL            |

### Stable Isotope Labeled Calibrant Mixtures

|              |        |  |                   |
|--------------|--------|--|-------------------|
| ILM025-1.2ML | MIX 10 | ( <sup>13</sup> C Fusarium Toxins: 10 µg/mL <sup>13</sup> C <sub>15</sub> Deoxynivalenol, 10 µg/mL <sup>13</sup> C <sub>22</sub> HT-2Toxin, 1 µg/mL <sup>13</sup> C <sub>24</sub> T-2Toxin, 3 µg/mL <sup>13</sup> C <sub>18</sub> Zearalenone in acetonitrile) | 1.2 mL on request |
| ILM024-1.2ML | MIX 11 | ( <sup>13</sup> C Aflatoxins: 0.5 µg/mL each <sup>13</sup> C <sub>17</sub> Aflatoxin B1, <sup>13</sup> C <sub>17</sub> Aflatoxin B2, <sup>13</sup> C <sub>17</sub> Aflatoxin G1, <sup>13</sup> C <sub>17</sub> Aflatoxin G2 in acetonitrile)                   | 1.2 mL            |
| ILM023-1.2ML | MIX 12 | ( <sup>13</sup> C Fumonisins: 5 µg/mL each <sup>13</sup> C <sub>34</sub> Fumonisin B1, <sup>13</sup> C <sub>34</sub> Fumonisin B2 in acetonitrile/water)   | 1.2 mL            |

# Mycotoxins REFERENCE MATERIALS



## Biopure™ Reference Materials

*Item No.*                      *Product*    *Amount*

### Reference Materials produced according to ISO Guide 34

| Item No. | Product   | Amount |
|----------|---|--------|
| PRM001   | Deoxynivalenol in acetonitrile (24.74 ± 0.62 µg/mL) | 2 mL   |
| PRM002   | Zearalenone in acetonitrile (10.03 ± 0.38 µg/mL)    | 2 mL   |
| PRM003   | Nivalenol in acetonitrile (25.04 ± 0.83 µg/mL)      | 2 mL   |
| PRM004   | Ochratoxin A in acetonitrile (10.01 ± 0.25 µg/mL)   | 2 mL   |

### Solid Standards

|        |  |       |
|--------|--|-------|
| 001006 | 15-Acetyl-Deoxynivalenol (98.8 ± 1.2 purity [%]) | 5 mg  |
| 001106 | 15-Acetyl-Deoxynivalenol (98.8 ± 1.2 purity [%]) | 10 mg |
| 001003 | 3-Acetyl-Deoxynivalenol (99.4 ± 0.6 purity [%])  | 5 mg  |
| 001103 | 3-Acetyl-Deoxynivalenol (99.4 ± 0.6 purity [%])  | 10 mg |
| 001012 | Aflatoxin B1 (99.5 ± 0.5 purity [%])             | 5 mg  |
| 001013 | Aflatoxin B2 (99.7 ± 0.3 purity [%])             | 5 mg  |
| 001014 | Aflatoxin G1 (98.0 ± 2.0 purity [%])             | 5 mg  |
| 001015 | Aflatoxin G2 (97.1 ± 2.9 purity [%])             | 5 mg  |
| 001001 | Deoxynivalenol (99.4 ± 0.6 purity [%])           | 5 mg  |
| 001101 | Deoxynivalenol (99.4 ± 0.6 purity [%])           | 10 mg |
| 001007 | Fumonisin B1 (97.6 ± 2.4 purity [%])             | 5 mg  |
| 001107 | Fumonisin B1 (97.6 ± 2.4 purity [%])             | 10 mg |
| 001004 | Fusarenol X (99.4 ± 0.6 purity [%])              | 5 mg  |
| 001104 | Fusarenol X (99.4 ± 0.6 purity [%])              | 10 mg |
| 001010 | Neosolaniol (99.4 ± 0.6 purity [%])              | 5 mg  |
| 001110 | Neosolaniol (99.4 ± 0.6 purity [%])              | 10 mg |
| 001005 | Nivalenol hydrate (98.6 ± 1.4 purity [%])        | 5 mg  |
| 001105 | Nivalenol hydrate (98.6 ± 1.4 purity [%])        | 10 mg |
| 001008 | Ochratoxin A (99.5 ± 0.5 purity [%])             | 5 mg  |
| 001108 | Ochratoxin A (99.5 ± 0.5 purity [%])             | 10 mg |
| 001016 | Patulin (99.7 ± 0.3 purity [%])                  | 5 mg  |
| 001017 | Sterigmatocystin (99.7 ± 0.3 purity [%])         | 5 mg  |
| 001011 | T-2 Toxin (99.7 ± 0.3 purity [%])                | 5 mg  |
| 001111 | T-2 Toxin (99.7 ± 0.3 purity [%])                | 10 mg |
| 001009 | Zearalenone (99.4 ± 0.6 purity [%])              | 5 mg  |
| 001109 | Zearalenone (99.4 ± 0.6 purity [%])              | 10 mg |

### Quality Control Materials<sup>†</sup>

|        |  |       |
|--------|--|-------|
| QCM0W0 | Blank Wheat                              | 100 g |
| QCM1C1 | Aflatoxins in Corn, low level            | 100 g |
| QCM1C2 | Aflatoxins in Corn, mid level            | 100 g |
| QCM2C1 | Deoxynivalenol in Corn, low level        | 100 g |
| QCM2C2 | Deoxynivalenol in Corn, mid level        | 100 g |
| QCM2C3 | Deoxynivalenol in Corn, high level       | 100 g |
| QCM2W1 | Deoxynivalenol in Wheat, low level       | 100 g |
| QCM2W2 | Deoxynivalenol in Wheat, mid level       | 100 g |
| QCM2B3 | Deoxynivalenol in Barley, high level     | 100 g |
| QCM3C1 | Fumonisin in Corn, low level             | 100 g |
| QCM3C2 | Fumonisin in Corn, mid level             | 100 g |
| QCM3C3 | Fumonisin in Corn, high level            | 100 g |
| QCM6C1 | Zearalenone in Corn, low level           | 100 g |
| QCM6C2 | Zearalenone in Corn, mid level           | 100 g |
| QCM6C3 | Zearalenone in Corn, high level          | 100 g |
| QCM7C1 | Multitoxin (DON, Fumonisin, ZON) in Corn | 100 g |

<sup>†</sup> These products represent naturally contaminated materials. Supplies are limited. The exact concentration of the respective mycotoxins is stated on the certificate of analysis.

Food allergies, immune responses to food proteins that the body mistakenly believes are harmful, are a significant health problem of increasing concern in developed countries.

Allergens are the largest single cause of global product recalls. A major concern for food manufacturers is the potential risk of cross-contamination with food allergens during production processes. The aim of any food manufacturer's food allergen management program is to minimize this risk.

An important tool in any allergen management plan is testing for the presence or, better still, absence of allergens. Romer Labs provides an extensive range of allergen test kits for laboratory-based and on-site testing along with a broad portfolio of analytical service analyses.



Romer Labs® Testing Solutions

# Food Allergens

Food Allergens



*Eight major food allergens, the so-called Big 8, are responsible for the vast majority of all recorded food allergy incidents.*

# Food Allergens RAPID TESTS



## AgraQuant® Plus ELISA Tests

| Item No.   | Product                       | Quantitation Range | Limit of Detection | No. of Wells |
|------------|-------------------------------|--------------------|--------------------|--------------|
| COKAL0748F | AgraQuant® Plus Almond        | 1 – 25 ppm         | 0.5 ppm            | 48           |
| COKAL1248F | AgraQuant® Plus Casein        | 1 – 25 ppm         | 0.2 ppm            | 48           |
| COKAL3148F | AgraQuant® Plus Cashew        | 1 – 25 ppm         | 1 ppm              | 48           |
| COKAL1848F | AgraQuant® Plus Egg           | 1 – 25 ppm         | 0.5 ppm            | 48           |
| COKAL0348F | AgraQuant® Plus Hazelnut      | 2 – 25 ppm         | 1 ppm              | 48           |
| COKAL1648F | AgraQuant® Plus Macadamia nut | 1 – 25 ppm         | 1 ppm              | 48           |
| COKAL2148F | AgraQuant® Plus Mustard       | 1 – 25 ppm         | 0.5 ppm            | 48           |
| COKAL0148F | AgraQuant® Plus Peanut        | 1 – 25 ppm         | 0.5 ppm            | 48           |
| COKAL2748F | AgraQuant® Plus Pistachio     | 1 – 25 ppm         | 1 ppm              | 48           |
| COKAL1948F | AgraQuant® Plus Sesame        | 1 – 25 ppm         | 1 ppm              | 48           |



## AgraQuant® ELISA Tests

| Item No.  | Product                                  | Quantitation Range | Limit of Detection | No. of Wells |
|-----------|--|--------------------|--------------------|--------------|
| COKAL0748 | AgraQuant® Almond                        | 0.4 – 10 ppm       | 0.2 ppm            | 48           |
| COKAL1048 | AgraQuant® Beta-Lactoglobulin            | 10 – 400 ppb       | 1.5 ppb            | 48           |
| COKAL1200 | AgraQuant® Casein                        | 0.2 – 6 ppm        | 0.04 ppm           | 96           |
| COKAL3148 | AgraQuant® Cashew                        | 2 – 60 ppm         | 0.2 ppm            | 48           |
| COKAL2248 | AgraQuant® Crustacea                     | 20 – 400 ppb       | 0.9 ppb            | 48           |
| COKAL0848 | AgraQuant® Egg White                     | 0.4 – 10 ppm       | 0.05 ppm           | 48           |
| COKAL2548 | AgraQuant® Fish                          | 4 – 100 ppm        | 1.4 ppm            | 48           |
| COKAL0200 | AgraQuant® Gluten G12™ *                 | 4 – 200 ppm        | 2 ppm              | 96           |
| COKAL0206 | AgraQuant® Gluten G12™ Extraction Buffer | -                  | -                  | -            |
| COKAL0248 | AgraQuant® Gluten                        | 4 – 120 ppm        | 0.6 ppm            | 48           |
| COKAL0348 | AgraQuant® Hazelnut                      | 1 – 40 ppm         | 0.3 ppm            | 48           |
| COKAL0500 | AgraQuant® Histamine                     | 0.5 – 50 ppb       | 0.15 ppb           | 96           |
| COKAL0548 | AgraQuant® Histamine Rapid               | 3 – 300 ppm        | 1 ppm              | 48           |
| COKAL1548 | AgraQuant® Lupin                         | 2 – 30 ppm         | 0.2 ppm            | 48           |
| COKAL2848 | AgraQuant® Lysozyme                      | 25 – 250 ppb       | 2 ppb              | 48           |
| COKAL2448 | AgraQuant® Milk                          | 0.4 – 10 ppm       | 0.05 ppm           | 48           |
| COKAL2148 | AgraQuant® Mustard                       | 2 – 60 ppm         | 1 ppm              | 48           |
| COKAL2948 | AgraQuant® Ovalbumin                     | 25 – 500 ppb       | 4 ppb              | 48           |
| COKAL0148 | AgraQuant® Peanut                        | 1 – 40 ppm         | 0.1 ppm            | 48           |
| COKAL2748 | AgraQuant® Pistachio                     | 1 – 40 ppm         | 0.13 ppm           | 48           |
| COKAL1948 | AgraQuant® Sesame                        | 2 – 30 ppm         | 0.2 ppm            | 48           |
| COKAL0448 | AgraQuant® Soy                           | 40 – 1000 ppb      | 16 ppb             | 48           |
| COKAL0948 | AgraQuant® Walnut                        | 2 – 60 ppm         | 0.35 ppm           | 48           |

### Accessory

|           |                                  |    |
|-----------|----------------------------------|----|
| COOLS0120 | AgraQuant® Allergen Swabbing Kit | 20 |
|-----------|----------------------------------|----|

\* AOAC Official Method of Analysis 2014.03  
& AACC International Method 38-52.01

# Food Allergens RAPID TESTS



## AgraStrip® Lateral Flow Devices

| Item No.    | Product                                    | Limit of Detection | No. of Tests |
|-------------|--|--------------------|--------------|
| COKAL0710AS | AgraStrip® Almond                          | 2 ppm              | 10           |
| COKAL1010AS | AgraStrip® Beta-Lactoglobulin              | 0.5 ppm            | 10           |
| COKAL1710AS | AgraStrip® Brazil Nut                      | 5 ppm              | 10           |
| COKAL1210AS | AgraStrip® Casein                          | 1 ppm              | 10           |
| COKAL1206AS | AgraStrip® Wine Extraction Buffer (Casein) | -                  | -            |
| COKAL1310AS | AgraStrip® Cashew/Pistachio                | 2 ppm              | 10           |
| COKAL2210AS | AgraStrip® Crustacea                       | 2 ppm              | 10           |
| COKAL1810AS | AgraStrip® Egg                             | 2 ppm              | 10           |
| COKAL1806AS | AgraStrip® Wine Extraction Buffer (Egg)    | -                  | -            |
| COKAL0200AS | AgraStrip® Gluten G12™ *                   | 5, 10, 20 ppm      | 10           |
| COKAL0210AS | AgraStrip® Gluten                          | 4 ppm              | 10           |
| COKAL0310AS | AgraStrip® Hazelnut                        | 5 ppm              | 10           |
| COKAL1510AS | AgraStrip® Lupin                           | 10 ppm             | 10           |
| COKAL1610AS | AgraStrip® Macadamia nut                   | 2 ppm              | 10           |
| COKAL2410AS | AgraStrip® Milk                            | 1 ppm              | 10           |
| COKAL2110AS | AgraStrip® Mustard                         | 2 ppm              | 10           |
| COKAL0110AS | AgraStrip® Peanut                          | 1 ppm              | 10           |
| COKAL1910AS | AgraStrip® Sesame                          | 5 ppm              | 10           |
| COKAL0410AS | AgraStrip® Soy                             | 2 ppm              | 10           |
| COKAL0910AS | AgraStrip® Walnut                          | 10 ppm             | 10           |



**G12™ Antibody:** The G12™ antibody represents the next generation of gluten testing as it targets toxic peptides that trigger auto-immune reactions in people suffering from celiac disease. It is a monoclonal antibody that was raised against the toxic fragment called 33-mer of the gliadin protein present in gluten. Results obtained from immunochemical test systems based on the G12™ antibody should be considered to be closer to the ideal of a food safety test as they establish the important link between celiac disease and detection of the immunotoxic peptides.



## Biopure™ Reference Materials

| Item No.                      | Product                            | Amount |
|-------------------------------|------------------------------------|--------|
| <b>Check Sample Materials</b> |                                    |        |
| 004003                        | Positive control sample for Peanut | 5 g    |

\* Performance tested by AOAC:  
AOAC-RI Approval 061403

Foodborne illness is a serious public health concern around the world. Foods can become contaminated with pathogenic bacteria through exposure to animal manure, inadequate processing controls, cross-contamination, and improper storage or cooking.

With the globalization of the food supply it is imperative that food producers test their products for pathogens due to numerous regulatory requirements. Production delays and plant shut-downs, food spoilage, brand protection, and product recalls cost money and can damage a company's reputation. Therefore, cost-effective, easy-to-use, and accurate testing methods are necessary to ensure that the consumer is supplied with safe food.

Romer Labs® Testing Solutions

# Food Pathogens & General Microbiology



*A breakdown at any point on the farm-to-table spectrum can cause catastrophic harm to the health of consumers and great disruption and economic loss to the food industry.*

# Food Pathogens & General Microbiology



## RapidChek® *E. coli*<sup>1</sup>

| Item No.     | Product  | Quantity             |
|--------------|--|----------------------|
| 7000157P     | RapidChek® <i>E. coli</i> O157 Test Kit with Media Pouches<br>1x 7000157 RapidChek® <i>E. coli</i> O157 Test Kit (50 Tests)<br>10x 7000161S RapidChek® <i>E. coli</i> O157 Media Pouch (each sufficient for 1.2 L) | 50 Tests             |
| 7000160      | RapidChek® <i>E. coli</i> O157 Test Kit with Media<br>1x 7000157 RapidChek® <i>E. coli</i> O157 Test Kit (50 Tests)<br>1x 7000161 RapidChek® <i>E. coli</i> O157 Media (500 g)                                     | 50 Tests             |
| 7000157S     | RapidChek® <i>E. coli</i> O157 Test Kit Sample Pack with Media   | 5 Tests              |
| 7000290      | RapidChek® CONFIRM™ non-O157 STEC IMS Beads  | 100 Tests per O-Type |
| 7000290-O157 | RapidChek® CONFIRM™ <i>E. coli</i> O157 IMS Beads  | 100 Tests            |
| 7000290-O26  | RapidChek® CONFIRM™ <i>E. coli</i> O26 IMS Beads   | 100 Tests            |
| 7000290-O45  | RapidChek® CONFIRM™ <i>E. coli</i> O45 IMS Beads   | 100 Tests            |
| 7000290-O103 | RapidChek® CONFIRM™ <i>E. coli</i> O103 IMS Beads  | 100 Tests            |
| 7000290-O111 | RapidChek® CONFIRM™ <i>E. coli</i> O111 IMS Beads  | 100 Tests            |
| 7000290-O121 | RapidChek® CONFIRM™ <i>E. coli</i> O121 IMS Beads  | 100 Tests            |
| 7000290-O145 | RapidChek® CONFIRM™ <i>E. coli</i> O145 IMS Beads  | 100 Tests            |



## RapidChek® *Listeria*<sup>1</sup>

| Item No.               | Product   | Quantity |
|------------------------|---|----------|
| <b>Listeria System</b> |   |          |
| 7000174                | RapidChek® <i>Listeria</i> Environmental System<br>2x 7000171 RapidChek® <i>Listeria</i> Test Kit (45 Tests)<br>1x 7000176 RapidChek® <i>Listeria</i> Media/Supplement (500 g/10 g)   | 90 Tests |
| 7000174P               | RapidChek® <i>Listeria</i> Environmental Test Kit with Media Pouches<br>1x 7000171 RapidChek® <i>Listeria</i> Test Kit (45 Tests)<br>3x 7000177S RapidChek® <i>Listeria</i> Media Pouch (each sufficient for 1.2 L)<br>3x 7000178S RapidChek® <i>Listeria</i> Supplement Pouch (1.2 L)              | 45 Tests |
| 7000175                | RapidChek® <i>Listeria</i> Food System<br>1x 7000171 RapidChek® <i>Listeria</i> Test Kit (45 Tests)<br>1x 7000176 RapidChek® <i>Listeria</i> Media/Supplement (500 g/10 g)  | 45 Tests |
| 7000175P               | RapidChek® <i>Listeria</i> Food Test Kit with Media Pouches<br>1x 7000171 RapidChek® <i>Listeria</i> Test Kit (45 Tests)<br>10x 7000177S RapidChek® <i>Listeria</i> Media Pouch (each sufficient for 1.2 L)<br>10x 7000178S RapidChek® <i>Listeria</i> Supplement Pouch (each sufficient for 1.2 L) | 45 Tests |
| 7000175S               | RapidChek® <i>Listeria</i> Food System Sample Pack with Media   | 5 Tests  |
| 7000205                | RapidChek® <i>Listeria</i> MediaBox™ - only available in US   | 5 L      |
| 7000210                | RapidChek® <i>Listeria</i> MediaBox™ - only available in US   | 10 L     |
| 7000212                | RapidChek® <i>Listeria</i> MediaBox™ - only available in US   | 20 L     |

### Listeria NextDay™ System (Fast Enrichment)

|                 |   |                        |
|-----------------|---|------------------------|
| 7000238P        | RapidChek® <i>Listeria</i> NextDay™ Environmental System with Media Pouches<br>1x 7000171 RapidChek® <i>Listeria</i> Test Kit (45 Tests)<br>10x 7000243S RapidChek® <i>Listeria</i> NextDay™ Media Pouch (each sufficient for 300 ml) | 45 Tests               |
| 7000248E        | RapidChek® <i>Listeria</i> NextDay™ Food System Sample Pack with Media  | 5 Tests                |
| 7000248         | RapidChek® <i>Listeria</i> NextDay™ Environmental System<br>4x 7000171 RapidChek® <i>Listeria</i> Test Kit (45 Tests)<br>1x 7000243 RapidChek® <i>Listeria</i> NextDay™ Media (500 g)   | 180 Tests              |
| 7000248S        | RapidChek® <i>Listeria</i> NextDay™ Envir. System Sample Pack with Media  | 5 Tests                |
| 7000261         | RapidChek® <i>Listeria</i> NextDay™ Food System<br>1x 7000171 RapidChek® <i>Listeria</i> Test Kit (45 Tests)<br>1x 7000243 RapidChek® <i>Listeria</i> NextDay™ Media (500 g)  | 45 Tests               |
| 7000246         | RapidChek® <i>Listeria</i> Test Comb System (no Media)  | 384 Tests              |
| 7000255         | RapidChek® <i>Listeria</i> NextDay™ MediaBox - only available in US   | 5 L                    |
| 7000251         | RapidChek® <i>Listeria</i> NextDay™ MediaBox - only available in US   | 10 L                   |
| 7000252         | RapidChek® <i>Listeria</i> NextDay™ MediaBox - only available in US   | 20 L                   |
| 7200001         | RapidChek® <i>Listeria</i> NextDay™ PUR-Blue™ DUO Swab Sampler  | 100 Samplers           |
| 7000257         | RapidChek® <i>Listeria</i> NextDay™ Test Kit<br>+ PUR-Blue™ DUO Swab Sampler  | 5 Tests + 5 Samplers   |
| 7000171-7200001 | RapidChek® <i>Listeria</i> NextDay™ Test Kit<br>+ PUR-Blue™ DUO Swab Sampler  | 45 Tests + 45 Samplers |

<sup>1</sup> AOAC approved

<sup>2</sup> AFNOR validated

<sup>3</sup> NPIP approved

<sup>4</sup> FDA equivalency

# Food Pathogens & General Microbiology

## **Listeria monocytogenes System (Listeria NextDay™ Media required)**

|          |   |              |
|----------|---|--------------|
| 7000297  | RapidChek® <i>Listeria monocytogenes</i> Test Kit (no Media)                | 50 Tests     |
| 7000297S | RapidChek® <i>Listeria monocytogenes</i> Food System Sample Pack with Media | 5 Tests      |
| 7000243  | RapidChek® <i>Listeria</i> NextDay™ Media                                   | 500 g        |
| 7200001  | RapidChek® <i>Listeria</i> NextDay™ PUR-Blue™ DUO Swab Sampler              | 100 Samplers |



## **RapidChek® SELECT™ Salmonella 1,3**

| Item No. | Product   | Quantity  |
|----------|---|-----------|
| 7000190  | RapidChek® SELECT™ <i>Salmonella</i> Food System<br>2x 7000191 RapidChek® SELECT™ <i>Salmonella</i> Test Kit (50 Tests)<br>1x 7000196 RapidChek® SELECT™ <i>Salm.</i> Prim./Sec. Media/Supplement (500 g/10 g/250 mL)   | 100 Tests |
| 7000190S | RapidChek® SELECT™ <i>Salmonella</i> Food System Sample Pack with Media   | 5 Tests   |
| 7000191P | RapidChek® SELECT™ <i>Salmonella</i> Test Kit with Media Pouches<br>1x 7000191 RapidChek® SELECT™ <i>Salmonella</i> Test Kit (50 Tests)<br>10x 7000192S RapidChek® SELECT™ <i>Salmonella</i> Primary Media Pouch (each sufficient for 1.2 L)<br>4x 7000193S RapidChek® SELECT™ <i>Salmonella</i> Secondary Media Pouch each sufficient for (13 mL)<br>10x 7000194S RapidChek® SELECT™ <i>Salmonella</i> Supplement (10 mL sufficient for 1.2 L primary Media) | 50 Tests  |
| 7000195  | RapidChek® SELECT™ <i>Salmonella</i> Carcass Rinse System<br>8x 7000191 RapidChek® SELECT™ <i>Salmonella</i> Test Kit (50 Tests)<br>1x RapidChek® SELECT™ <i>Salm.</i> Prim./Sec. Media/Supplement (500 g/40 g/250 mL)  | 400 Tests |
| 7000198  | RapidChek® SELECT™ <i>Salmonella</i> Environmental System<br>8x 7000191 RapidChek® SELECT™ <i>Salmonella</i> Test Kit (50 Tests)<br>1x RapidChek® SELECT™ <i>Salm.</i> Prim./Sec. Media/Supplement (500 g/30 g/250 mL)  | 400 Tests |



## **RapidChek® SELECT™ Salmonella Serogrouping 1,4**

| Item No. | Product  | Quantity  |
|----------|--|-----------|
| 7000220P | RapidChek® SELECT™ <i>Salmonella</i> Enteritidis Test Kit with Media Pouches<br>1x 7000220 RapidChek® SELECT™ <i>Salmonella</i> Enteritidis Test Kit 50 Tests<br>10x 7000192S RapidChek® SELECT™ <i>Salmonella</i> Primary Media Pouch (each sufficient for 1.2 L)<br>10x 7000193S RapidChek® SELECT™ <i>Salmonella</i> Secondary Media Pouch (each sufficient for 13 mL)<br>10x 7000194S RapidChek® SELECT™ <i>Salmonella</i> Supplement (10 mL sufficient for 1.2 L primary Media) | 50 Tests  |
| 7000220S | RapidChek® SELECT™ <i>Salmonella</i> Enteritidis Food Sample Pack with Media   | 5 Tests   |
| 7000222  | RapidChek® SELECT™ <i>Salmonella</i> Enteritidis Environmental Swab System<br>5x 7000220 RapidChek® SELECT™ <i>Salmonella</i> Enteritidis Test Kit (50 Tests)<br>1x RapidChek® SELECT™ <i>Salm.</i> Prim./Sec. Media/Supplement (500 g/40 g/250 mL)  | 250 Tests |
| 7000223  | RapidChek® SELECT™ <i>Salmonella</i> Enteritidis Egg Test System<br>5x 7000220 RapidChek® SELECT™ <i>Salmonella</i> Enteritidis Test Kit (50 Tests)<br>2x 7000196 RapidChek® SELECT™ <i>Salm.</i> Prim./Sec. Media/Supplement (500 g/10 g/250 mL)  | 250 Tests |
| 7000225  | RapidChek® CONFIRM™ <i>Salmonella</i> Enteritidis IMS Beads  | 100 Tests |
| 7000258  | RapidChek® SELECT™ <i>Salmonella</i> Group B Test Kit (no Media)   | 50 Tests  |

**For all RapidChek® kits - high volume packaging also available**



## **Consumables for RapidChek® Pathogen Screening**

| Item No.  | Product  | Quantity           |
|-----------|--|--------------------|
| COSST6035 | Stomacher bags with filter, 55 oz. (1627 mL)               | Pack of 100 bags   |
| COSST6039 | Stomacher bags with filter, 609 oz. (18 L)                 | Pack of 100 bags   |
| COSST6036 | Environmental Sampling Swabs                               | Pack of 1000 swabs |
| 7000282   | RapidChek® CONFIRM™ XLT4 Plates - only available in US     | 20 Plates          |
| 7000283   | RapidChek® CONFIRM™ BGN Plates - only available in US      | 20 Plates          |
| 7000284   | RapidChek® CONFIRM™ MOX Plates - only available in US      | 20 Plates          |
| 7000285   | RapidChek® CONFIRM™ EZ-CHROM Plates - only available in US | 20 Plates          |

<sup>1</sup> AOAC approved  
<sup>2</sup> AFNOR validated

<sup>3</sup> NPIP approved  
<sup>4</sup> FDA equivalency

# Food Pathogens & General Microbiology



## RapidChek® Pathogen Screening Equipment

| Item No.  | Product   |
|-----------|---|
| EQOLE1210 | Test tube rack for 12 mm tubes, 72 positions  |
| EQOLE1211 | Test tube rack for 15 mm tubes, 72 positions  |
| EQOLE1217 | Stomacher bag rack, 10 position   |
| EQOLE1497 | Cluster tube rack, 96 positions (suitable for EQOLE1493)                                    |
| 7000227   | Magnetic Rack, Rack to be used for wash steps of isolation protocol for RapidChek® CONFIRM™ |
| EQOEV2010 | Heat block, insert for 12 tubes (required for EQOEV2070)                                    |
| EQOEV2020 | Heat block, insert for 24 tubes (required for EQOEV2072)                                    |
| EQOLE1493 | Heat block, insert for 48 cluster tubes/rack (required for EQOEV2072)                       |
| EQOLE1010 | Balance, 400 g x 0.1 g, 110 V   |
| EQOEV2070 | Dry bath, heat block ( <i>Listeria</i> boil step) 110 V                                     |
| EQOEV2060 | Dry bath, heat block ( <i>Listeria</i> boil step) 220 V                                     |
| EQOEV2072 | Dry bath, double heat block ( <i>Listeria</i> boil step for combs) 110 V                    |
| EQOLE1063 | Stir plate 110 V  |



## HygieneChek™

| Item No. | Product  | Quantity  |
|----------|--|-----------|
| 49404R   | Total count/Total count                                  | 20 pieces |
| 49405R   | Total count/Lactic acid bacteria                         | 20 pieces |
| 49406R   | Total count/Coliforms                                    | 20 pieces |
| 49410R   | Lactic acid bacteria/Yeasts and Molds                    | 20 pieces |
| 49412R   | Total count/Yeasts & Molds                               | 20 pieces |
| 49413R   | <i>Staphylococcus/Staphylococcus</i>                     | 20 pieces |
| 49416R   | Yeasts & Molds/Yeasts & Molds                            | 20 pieces |
| 49417R   | Coliforms/Coliforms                                      | 20 pieces |
| 49421R   | Coliforms/Yeasts & Molds                                 | 20 pieces |
| 49423R   | TTC total count/Yeasts & Molds                           | 20 pieces |
| 49424R   | TTC total count/Coliforms                                | 20 pieces |
| 49426R   | TTC Total count/TTC Total count                          | 20 pieces |
| 49428R   | Disinfection control/Disinfection control                | 20 pieces |
| 49435R   | CHROMagar <i>E. coli</i> /Coliforms                      | 20 pieces |
| 49436R   | CHROMagar <i>Salmonella</i> /CHROMagar <i>Salmonella</i> | 20 pieces |
| 49441R   | <i>Listeria/Listeria</i>                                 | 20 pieces |
| 49446R   | <i>Enterobacteriaceae</i> /Total count                   | 20 pieces |
| 49449R   | CHROMagar <i>S. aureus</i> /CHROMagar <i>S. aureus</i>   | 20 pieces |
| 49457R   | <i>Enterobacteriaceae/Enterobacteriaceae</i>             | 20 pieces |
| Z252000  | thermocult Small-Size Incubator                          | 230 V     |

# Surface Sampling Solutions



## Sampling Sponge-Sticks

| Package Size | Description                                | Item No.  |                  |
|--------------|--|---|------------------|
|              |  | In aluminum foil<br>(incl. sterile twirl-tie bag) | In twirl-tie bag |
| 100          | Neutralizing buffer (NB)                   | # SH10NB  | # SHPB10NB       |
| 100          | Dey-Engley neutralizing broth (DE)         | # SH10DE  | # SHPB10DE       |
| 100          | Lethen broth (LB)                          | # SH10LB  | # SHPB10LB       |
| 100          | Buffered peptone water (BPW)               | # SH10BPW   | # SHPB10BPW      |
| 100          | Neutralizing buffered peptone water (nBPW) | # SH10NBPW  | # SHPB10NBPW     |
| 100          | Butterfield's phosphate buffer (BPB)       | # SH10BPB   | # SHPB10BPB      |
| 100          | Dry  |   | # SHPB10DRY      |



# Surface Sampling Solutions



## Sampling Sponges

| Package Size  | Description                                | Item No.    |                                    |                |
|---------------|--|-------------|------------------------------------|----------------|
|               | Pre-moistened with 10 ml of                | Sponge only | Kit (incl. twirl-tie bag & gloves) | Sponge in Vial |
| 100 (Kit: 50) | Neutralizing buffer (NB)                   | # BS10NB    | # BS02NB                           | # SV10NB       |
| 100 (Kit: 50) | Dey-Engley neutralizing broth (DE)         | # BS10DE    | # BS02DE                           | # SV10DE       |
| 100 (Kit: 50) | Lethen broth (LB)                          | # BS10LB    | # BS02LB                           | # SV10LB       |
| 100 (Kit: 50) | Buffered peptone water (BPW)               | # BS10BPW   | # BS02BPW                          | # SV10BPW      |
| 100 (Kit: 50) | Neutralizing buffered peptone water (nBPW) | # BS10NBPW  | # BS02NBPW                         | # SV10NBPW     |
| 100 (Kit: 50) | Butterfield's phosphate buffer (BPB)       | # BS10BPB   | # BS02BPB                          | # SV10BPB      |
| 100           | Dry (in twirl-tie bag)                     | # CV1001    |                                    |                |



## Sterile Boot Cover Swabs

### Boot Cover Swabs in 24 oz. (0.7 L) Twirl-Tie Bag, sterile 5.5" x 9" (14 x 23 cm)

| Package Size | Description                           | Item No.     |
|--------------|---------------------------------------|--------------|
| 100          | pre-moistened with skim milk - single | # BTSW001SM  |
| 100          | pre-moistened with skim milk - pair   | # BTSW022SM  |
| 100          | pre-moistened with BPW - single       | # BTSW001BPW |
| 100          | pre-moistened with BPW - pair         | # BTSW022BPW |
| 100          | dry - single                          | # BTSW001DRY |
| 100          | dry - pair                            | # BTSW022DRY |

### Boot Cover Swabs in 55 oz. (1.62 L) Twirl-Tie Bag, steril 7.5" x 12" (19 x 30 cm)

| Package Size | Description                          | Item No.     |
|--------------|--------------------------------------|--------------|
| 100          | pre-moistened with BPW - pair        | # BTSW200BPW |
| 100          | pre-moistened with BPW - 2 pairs     | # BTSW401BPW |
| 50           | pre-moistened with BPW - 2 + 3 pairs | # BTSW460BPW |

### Plastic Boot Covers

| Package Size | Description                          | Item No.   |
|--------------|--------------------------------------|------------|
| 100          | Plastic boot cover with elastic band | # BTSWPBC  |
| 50           | Plastic boot cover (oversize)        | # C14091WA |



## Drag Swabs

| Package Size | Description   | Item No.   |
|--------------|---|------------|
| 100          | Drag Swabs - cotton gauze moistened in skim milk                    | # DS001    |
| 100          | Swabs - cotton gauze moistened in skim milk (no string)             | # DS001HL  |
| 100          | Swabs - cotton gauze moistened in skim milk (no string, 3 per foil) | # DS001HL3 |
| 100          | Drag Swabs - cellulose sponge moistened in skim milk                | # DS002    |
| 100          | Drag Swabs - cotton gauze moistened in skim milk (in vial)          | # DS004    |



## Miscellaneous Environmental Sampling Products

| Package Size | Description  | Item No. |
|--------------|--|----------|
| 100          | 100 cm <sup>2</sup> template packaged in re-closable bag | # T100   |
| 100          | 50 cm <sup>2</sup> template packaged in re-closable bag  | # T50    |
| 50           | Co-polymer gloves size XL packaged in peel open pouch    | # GL002  |
| 100          | 18 oz. (0.5 L) twirl tie sample bag, sterile 4.5" x 9"   | # BG18   |
| 100          | 24 oz. (0.7 L) twirl tie sample bag, sterile 5.5" x 9"   | # BG24   |

Plants of vital importance to agriculture are often genetically modified by the insertion of foreign DNA material into their DNA sequence, resulting in the expression of novel traits, typically herbicide tolerance or insect resistance.

Current GMO production basically centers on four main crops: soybeans, corn, cotton and oilseed canola. On a global level, GMO crops are cultivated on substantial areas of arable land.

The presence of genetically modified material is determined by detecting either the inserted DNA or the proteins it expresses, which are found in the cells of the plant.

Romer Labs offers both a wide range of rapid tests based on LFD and ELISA technologies to determine the presence of proteins expressed by inserted DNA. An extensive range of analytical service analyses covers the majority of registered GMO traits found on the market and is available for both DNA and protein testing. Our methods can test both seeds and plant tissue material such as leaves.

Romer Labs® Testing Solutions

# GMO



*18 million farmers in  
26 countries planted more  
than 185 million hectares  
of GM crops in 2016.*



GMO



## AgraQuant® ELISA Tests

| Item No.         | Product  | Trait     | Range        | No. of Wells |
|------------------|--|-----------|--------------|--------------|
| <b>GMOChek™</b>  |  |           |              |              |
| 7099999          | AgraQuant® Soya Toasted Meal GMOChek™                          | CP4 EPSPS | 0.3 – 2.5 %  | 96           |
| 7100000          | AgraQuant® RUR Soya Grain GMOChek™                             | CP4 EPSPS | 0.3 – 2.5 %  | 96           |
| 7110000          | AgraQuant® Cry1Ab Maize GMOChek™                               | Bt-Cry1Ab | 0.15 – 2.0 % | 96           |
| <b>SeedChek™</b> |  |           |              |              |
| 7140220          | AgraQuant® DAS Cry1Ac SeedChek™                                | Bt-Cry1Ac | n/a          | 960          |
| 7020000          | AgraQuant® Cry1F SeedChek™                                     | Bt-Cry1F  | n/a          | 960          |
| 7020100          | AgraQuant® EPSPS SeedChek™                                     | mEPSPS    | n/a          | 960          |
| 7020105          | AgraQuant® Vip3A SeedChek™                                     | Vip3A     | n/a          | 960          |
| 7020106          | AgraQuant® PMI Plate SeedChek™                                 | PMI       | n/a          | 960          |
| 7020110          | AgraQuant® APH4 SeedChek™                                      | APH4      | n/a          | 960          |
| 7020115          | AgraQuant® eCry3.1Ab Plate SeedChek™                           | eCry3.1Ab | n/a          | 960          |
| 7020120          | AgraQuant® Cry35 Plate SeedChek™                               | Cry35     | n/a          | 960          |
| 7100100          | AgraQuant® RUR SeedChek™ Soy                                   | CP4 EPSPS | n/a          | 960          |
| <b>Standards</b> |  |           |              |              |
| 7100001          | RUR Soya Standards - Full Fat Flour (for flour, meal and grit) |           |              |              |
| 7100002          | RUR Soya Standards - Defatted Flour                            |           |              |              |
| 7100004          | RUR Soya Standards - Protein Isolate                           |           |              |              |



## AgraStrip® Lateral Flow Devices

| Item No.  | Product                                     | Trait   | Range                | Commodity            | No. of Tests |
|---|---|---|----------------------|----------------------|--------------|
| <b>Quantitative TraitChek™ for AgraVision™ Reader</b> |   |   |                      |                      |              |
| 7000011   | AgraStrip® RUR-HS Bulk Grain                | CP4 EPSPS   | 0.1 to 5.0 %         | corn and canola      | 100          |
| 7000014   | AgraStrip® RUR Bulk Grain                   | CP4 EPSPS   | 0.1 to 5.0 %         | soy                  | 100          |
| 7000041   | AgraStrip® Cry3Bb Bulk Grain                | Bt-Cry3Bb   | 0.25 to 5.0 %        | corn                 | 100          |
| 7000043   | AgraStrip® LL Bulk Grain                    | PAT   | 0.5 to 5.0 %         | corn, canola and soy | 100          |
| 7000053   | AgraStrip® Cry1F Bulk Grain (water extract) | Bt-Cry1F  | 0.25 to 5.0 %        | corn                 | 100          |
| 7000055   | AgraStrip® Cry34Ab1 Bulk Grain              | Bt-Cry34Ab1   | 0.25 to 5.0 %        | corn                 | 100          |
| 7000071   | AgraStrip® Cry1Ac Bulk Grain                | Bt-Cry1Ac   | 0.1 to 5.0 %         | corn                 | 100          |
| 7000093   | AgraStrip® Vip Bulk Grain                   | Vip3A   | 0.1 to 5.0 %         | corn                 | 100          |
| 7000099   | AgraStrip® Cry1Ac-S Bulk Grain              | Bt-Cry1Ac   | 0.1 to 5.0 %         | soy                  | 100          |
| 7880621   | AgraStrip® quantitative Corn comb           | CP4 EPSPS, PAT, Vip 3A, Bt-Cry1Ac, Bt-Cry3Bb, Bt-Cry1F, Bt-Cry34Ab1 | depends on the trait | corn                 | 20           |
| 7880622   | AgraStrip® quantitative 4 Strip Corn Comb   | CP4 EPSPS, PAT, Vip 3A, Bt-Cry1A, Bt-Cry3Bb, Bt-Cry1F, Bt-Cry34Ab1  | depends on the trait | corn                 | 20           |
| 7880623   | AgraStrip® quantitative Soy comb            | CP4 EPSPS, PAT  | depends on the trait | soy                  | 20           |



## AgraStrip® Lateral Flow Devices

| Item No.          | Product                                     | Trait  | LOD  | No. of Tests |
|-------------------|---|--|--|--------------|
| <b>TraitChek™</b> |   |  |  |              |
| 7000011           | AgraStrip® RUR-HS Bulk Grain                | CP4 EPSPS  | 0.125 % in corn<br>0.1 % in canola<br>0.167 % in alfalfa               | 100          |
| 7000014           | AgraStrip® RUR Bulk Grain                   | CP4 EPSPS  | 0.1 % in soy and<br>sugarbeets in<br>5 min; 0.143 %<br>in soy in 3 min | 100          |
| 7000017           | AgraStrip® RUR Seed and Leaf                | CP4 EPSPS  | qualitative  | 100          |
| 7000021           | AgraStrip® CspB Bulk Seed                   | CspB   | 0.9 % in corn  | 100          |
| 7000022           | AgraStrip® CspB Seed and Leaf               | CspB   | qualitative  | 100          |
| 7000025           | AgraStrip® Cry1Ab Bulk Grain                | Bt-Cry1Ab  | 0.9 % in corn  | 100          |
| 7000026           | AgraStrip® Cry1Ab Seed and Leaf             | Bt-Cry1Ab  | qualitative  | 100          |
| 7000028           | AgraStrip® Cry1F Seed and Leaf              | Bt-Cry1F   | qualitative  | 100          |
| 7000041           | AgraStrip® Cry3Bb Bulk Grain                | Bt-Cry3Bb  | 0.125 % in corn  | 100          |
| 7000042           | AgraStrip® Cry3Bb Seed and Leaf             | Bt-Cry3Bb  | qualitative  | 100          |
| 7000043           | AgraStrip® LL Bulk Grain                    | PAT  | 0.9 % in corn and<br>sugarbeet,<br>2 % in canola<br>0.5 % in soy       | 100          |
| 7000044           | AgraStrip® Cry1Ab/LL Bulk Grain Combo       | Bt-Cry1Ab, PAT   | 0.9 % in corn  | 100          |
| 7000045           | AgraStrip® LL Seed and Leaf                 | PAT  | qualitative  | 100          |
| 7000048           | AgraStrip LL Bulk Grain for Rice            | PAT  | 0.05 % in LLRice62<br>2 % in LLRice61                                  | 100          |
| 7000053           | AgraStrip® Cry1F Bulk Grain (water extract) | Bt-Cry1F   | 0.9 % in corn  | 100          |
| 7000054           | AgraStrip® Triple Trait Seed and Leaf       | CP4 EPSPS,<br>Bt-Cry1Ab, Bt-Cry1Ac,<br>Bt-Cry1A.105, Bt-Cry3Bb                                       | qualitative  | 100          |
| 7000055           | AgraStrip® Cry34Ab1 Bulk Grain              | Bt-Cry34Ab1  | 0.125 % in corn  | 100          |
| 7000070           | AgraStrip® Cry1Ac Seed and Leaf             | Cry1Ac   | qualitative  | 100          |
| 7000071           | AgraStrip® Cry1Ac Bulk Grain                | Cry1Ac   | 0.9 % in cotton  | 100          |
| 7000092           | AgraStrip® Vip Seed and Leaf                | Vip3A  | qualitative  | 100          |
| 7000093           | AgraStrip® Vip Bulk Grain                   | Vip3A  | 0.33 % in corn   | 100          |
| 7000094           | AgraStrip® Cry2Ab Seed and Leaf             | Bt-Cry2Ab  | qualitative  | 100          |
| 7000097           | AgraStrip® eCry3.1Ab Bulk Grain             | eCry3.1Ab  | 0.25 % in corn   | 100          |
| 7000098           | AgraStrip® eCry3.1Ab Seed and Leaf          | eCry3.1Ab  | qualitative  | 100          |
| 7000099           | AgraStrip® Cry1Ac-S Bulk Grain              | Cry1Ac   | depends on method  | 100          |
| 7120050           | AgraStrip® RUR Toasted Meal                 | CP4 EPSPS  | 0.9 % in toasted soy   | 100          |
| 7806000           | AgraStrip® Triple Trait Bulk Grain          | CP4 EPSPS,<br>Bt-Cry1Ab, Bt-Cry1Ac,<br>Bt-Cry1A.105, Bt-Cry3Bb                                       | 0.1 % in corn<br>0.5 % in corn<br>0.5 % in corn                        | 100          |
| 7880611           | AgraStrip® Corn Comb w/VIP3A                | CP4 EPSPS, PAT,<br>Bt-Cry1Ab, Bt-Cry1Ac,<br>Bt-Cry1A.105, Bt-Cry3Bb,<br>Bt-Cry1F, Bt-Cry34Ab1, VIP3A | depends<br>on the trait  | 20           |
| 7880623           | AgraStrip® Soy Comb 2 Traits                | CP4 EPSPS, PAT   | depends<br>on the trait  | 20           |

Residues in food and feed are a very heterogeneous group of substances ranging from process contaminants to pesticides, veterinary drugs or even substances added illegally, such as melamine.

Furthermore, the inadvertent contamination of meat and bone meal (MBM) with infected animal tissue and the subsequent use of this material as a feed supplement contributes to the spread of disease. As a result, the use of processed animal proteins (PAPs) in animal feed is regulated in many countries around the world.

Romer Labs offers ELISA-based test kits, standards and reference materials for residues and rapid, cost-effective immunochromatographic strip tests for meat and bone meal.

Romer Labs® Testing Solutions

# Residues and Contaminants



*Illegal residues in food and feed are a growing concern for public health.*



# Residues



## AgraQuant® ELISA Tests

| Item No.  | Product                            | Quantitation Range* | LOD*             | No. of Wells |
|-----------|------------------------------------|---------------------|------------------|--------------|
| COKDA1100 | AgraQuant® Chloramphenicol         | 0.05 – 10 ppb       | 0.03 – 0.81 ppb  | 96           |
| COKDA2500 | AgraQuant® Chloramphenicol Plus    | 0.03 – 6 ppb        | 0.02 – 0.33 ppb  | 96           |
| COKDA0200 | AgraQuant® AMOZ                    | 0.65 – 16.2 ppb     | 0.22 – 0.26 ppb  | 96           |
| COKDA2200 | AgraQuant® Nitrofurans (AMOZ) Plus | 0.3 – 18 ppb        | 0.09 – 0.23 ppb  | 96           |
| COKDA0300 | AgraQuant® AOZ                     | 0.35 – 3 ppb        | 0.11 – 0.14 ppb  | 96           |
| COKDA2300 | AgraQuant® Nitrofurans (AOZ) Plus  | 0.1 – 3 ppb         | 0.06 – 0.35 ppb  | 96           |
| COKDA0400 | AgraQuant® Clenbuterol             | 0.15 – 20.0 ppb     | 0.11 – 1.09 ppb  | 96           |
| COKDA0500 | AgraQuant® Ractopamine             | 0.3 – 20 ppb        | 0.21 – 3.53 ppb  | 96           |
| COKDA0600 | AgraQuant® Beta-Agonists           | 0.5 – 50.0 ppb      | 0.28 – 0.73 ppb  | 96           |
| COKDA0800 | AgraQuant® Dexamethasone           | 0.15 – 25 ppb       | 0.08 – 1.00 ppb  | 96           |
| COKDA0900 | AgraQuant® Ciprofloxacin           | 3 – 360 ppb         | 0.73 – 2.9 ppb   | 96           |
| COKDA1200 | AgraQuant® Quinolones              | 2 – 300 ppb         | 1.14 – 1.87 ppb  | 96           |
| COKDA2400 | AgraQuant® Nitrofurans (AHD) Plus  | 0.20 – 16 ppb       | 0.07 – 0.34 ppb  | 96           |
| COKDA1400 | AgraQuant® Nitrofurans (SEM)       | 0.3 – 3.75 ppb      | 0.21 – 0.43 ppb  | 96           |
| COKDA1600 | AgraQuant® Sulfonamides            | 2.5 – 1875 ppb      | 0.17 – 21.35 ppb | 96           |



## Biopure™ Reference Materials

| Item No.                                 | Product   | Amount   |
|--|---|----------|
| <b>Calibrant Solutions</b>               |   |          |
| ANT-007                                  | Tetracycline (2.5 µg/mL) dried down   | 5 x 1 mL |
| ALK-001-1ML                              | Atropine (100 µg/mL) dried down   | 1 mL     |
| ALK-003-1ML                              | Scopolamine Hydrochlorid (100 µg/mL) dried down   | 1 mL     |
| ALK-004-1ML                              | Hyoscyamine (100 µg/mL) dried down  | 1 mL     |
| CMT001                                   | Melamine (100 µg/mL) in acetonitrile/water  | 5 mL     |
| <b>Stable Isotope Labeled Calibrants</b> |   |          |
| ANT-001-1.2ML                            | U-[ <sup>13</sup> C <sub>17</sub> ]-Griseofulvin (25 µg/mL) in acetonitrile/water                       | 1.2 mL   |
| ANT-008                                  | U-[ <sup>13</sup> C <sub>22</sub> <sup>15</sup> N <sub>2</sub> ]-Tetracycline (2.5 µg/mL) dried down    | 5 x 1mL  |
| ANT-010                                  | U-[ <sup>13</sup> C <sub>22</sub> <sup>15</sup> N <sub>2</sub> ]-Oxytetracycline (2.5 µg/mL) dried down | 5 x 1mL  |
| CMT002                                   | U-[ <sup>13</sup> C <sub>3</sub> ]-Melamine (100 µg/mL) in acetonitrile/water                           | 1.2 mL   |



## AgraQuant® ELISA Tests

| Item No.        | Product                       | Quantitation Range* | LOD*             | No. of Wells |
|-----------------|-------------------------------|---------------------|------------------|--------------|
| <b>Melamine</b> |                               |                     |                  |              |
| COKAQ9300       | AgraQuant® Melamine           | 2 – 250 ppm         | 0.2 – 6.7 ppm    | 96           |
| COKAQ9400       | AgraQuant® Melamine Sensitive | 0.1 – 25 ppm        | 0.008 – 0.15 ppm | 96           |



# Contaminants



## AgraStrip® FeedChek™

| <i>Item No.</i> | <i>Product</i>                   | <i>Quantity</i> |
|-----------------|----------------------------------|-----------------|
| 7000201         | AgraStrip® FeedChek™ Test Kit    | 20 Tests        |
| 7000202         | FeedChek™ Sample Buffer          | 600 mL          |
| 7000203         | AgraStrip® FeedChek™ Test Strips | 20 Tests        |

To ensure accurate and reproducible test results, the equipment used is key.

Romer Labs offers a range of equipment for analytical purposes, including Romer Mills for grinding and sample division and the Romer Evap<sup>®</sup> System for the rapid concentration of sample extracts.

Furthermore, quantitative and/or semi-quantitative analyses often require additional equipment for result interpretation. The AgraVision<sup>™</sup> reader supports lateral flow test interpretation while StatFax<sup>®</sup> and Biotek<sup>®</sup> are used for ELISA quantification purposes.

Last but not least, aflatoxin analysis by HPLC-FLD requires derivatization of the analytes for higher sensitivity, a task made possible by Romer Labs photochemical or electrochemical derivatization units.

Romer Labs® Testing Solutions

# Equipment

*High-quality equipment  
is essential to obtain  
accurate analytical results.*



# Equipment



## Laboratory Equipment

*Item No.*                      *Description*

### Romer Mills

#### Romer Series II® Mill <sup>6</sup>

|           |                                      |
|-----------|--------------------------------------|
| EQMMS2010 | Series II® Mill, 115V                |
| EQMMS2015 | Series II® Mill, 230V, American Plug |
| EQMMS2018 | Series II® Mill, 230V, European Plug |

The patented Romer Series II® Mill can prepare a representative sample quickly and easily. A 2 lb. (1 kg) sample of corn can be ground and subsampled within 1 to 2 minutes. This mill simultaneously grinds and splits the samples and is the only mill available that combines these two steps into one piece of equipment. The Series II® Mill is USDA/GIPSA approved and is used mainly for grains.

#### RAS® (Romer Analytical Sampling) Mill <sup>6</sup>

|           |                 |
|-----------|-----------------|
| EQMMR1010 | RAS® Mill, 115V |
| EQMMR1017 | RAS® Mill, 230V |

The RAS® Mill has been specifically developed for products that are difficult to grind due to high moisture and/or high oil content. Among these products are pet foods, wet maize, nuts and canola. A 2 lb. (1 kg) sample of corn can be ground and subsampled in 1 minute. The moving parts are made of stainless steel and flashed chrome for food safety analyses. The RAS® Mill is ideal for use in all labs where grinding and subsampling is essential, from pesticide to mycotoxin testing procedures.

### Reader

#### StatFax® ELISA Reader (Awareness Technology, Inc.)

|           |   |
|-----------|---|
| EQOLE4700 | Stat Fax® 4700 ELISA Reader (405, 450, 492, 630 nm) |
|-----------|---|

The StatFax® ELISA Reader is a microstrip reader intended for in-vitro diagnostic use. It is a compact, microprocessor-controlled, photometer system designed to read and calculate the results of endpoint colorimetric assays, which are read in microtiter strips. All AgraQuant® ELISA test kits featuring breakaway strips can be read by a Statfax® ELISA Reader.

#### BioTek 800 TS UV Reader (BioTek® Instruments Inc.)

|           |   |
|-----------|---|
| EQOLE1510 | BioTek® 800TS Reader incl. Gen5 SW (405, 450, 490 and 630 nm) |
| EQOLE1515 | Biotek® 800TS Reader (405, 450, 490 and 630 nm)               |

The 800 TS is a compact microplate reader that measures in the visible range.

#### ChroMate® ELISA Reader (Awareness Technology, Inc.)

|           |                        |
|-----------|------------------------|
| EQOLE1408 | ChroMate® ELISA Reader |
|-----------|------------------------|

The ChroMate® ELISA Reader is a compact and economical 8-channel microplate reader, intended for in-vitro diagnostic use. It reads a 96 well plate in 12 seconds and comes with versatile and flexible software. All AgraQuant® ELISA test kits can be read with the ChroMate® ELISA Reader.

<sup>6</sup> AOAC Official Method, USDA/GIPSA approved, UNECE Standard, FAO recommended, OECD recommended

# Equipment



## Laboratory Equipment

*Item No.*                      *Description*

### AgraVision™

|           |  |
|-----------|--|
| EQASR1000 | AgraVision™ Reader with Printer, Mycotoxin and GMO Tray              |
| EQASR1003 | AgraVision™ Reader with Mycotoxin Tray                               |
| EQASR1010 | AgraVision™ Reader Set-Up with Printer, Mycotoxin Tray and Incubator |

The AgraVision™ reader is a handheld lateral flow device reader used for the quantification of AgraStrip® mycotoxin and GMO products. It measures the intensity of the test line on the AgraStrip® and can read up to two mycotoxin strips or 4 GMO strips simultaneously. With the optional AgraVision™ printer, strip test results can easily be stored for hard copy documentation.

### AgraStrip® Incubator

|           |  |
|-----------|--|
| EQASR1500 | AgraStrip® Incubator with Heat Block and Tweezer |
|-----------|--|

The Romer Labs AgraStrip® Incubator composed of a thermostat and timer alarm is used for the test procedure of AgraStrip® Mycotoxin Quantitative Test kits. The heater temperature setting by default is 35 °C and the settable range is 0 – 50 °C. Warm-up time is about 20 minutes. Furthermore, the timer alarm can be set for 0 to 90 minutes.

### Romer Evap® System

|           |  |
|-----------|--|
| EQOEV1030 | Romer Evap® System, 12 Port, small, 115V |
| EQOEV1033 | Romer Evap® System, 12 Port, large, 115V |
| EQOEV1040 | Romer Evap® System, 24 Port, small, 115V |
| EQOEV1043 | Romer Evap® System, 24 Port, large, 115V |
| EQOEV1031 | Romer Evap® System, 12 Port, small, 230V |
| EQOEV1032 | Romer Evap® System, 12 Port, large, 230V |
| EQOEV1041 | Romer Evap® System, 24 Port, small, 230V |
| EQOEV1042 | Romer Evap® System, 24 Port, large, 230V |

The Romer Evap® is a versatile easy-to-use system that rapidly evaporates common organic solvents. Among the many features of the Romer Evap® System are the stainless steel design and solvent-resistant tubing. The system can be customized for either 12 or 24 port evaporation. Each row of ports can be separately controlled to regulate the amount of vacuum or may be completely shut off when not in use. The Romer Evap® System includes a 12 or 24 port evaporator, dry bath and vacuum pump.

# Equipment



## Laboratory Equipment

*Item No.*                      *Description*

### TLC Autospotter™

|           |                        |
|-----------|------------------------|
| EQOAS1010 | TLC Autospotter®, 115V |
| EQOAS2010 | TLC Autospotter®, 230V |

The Romer Labs TLC AutoSpotter™ reduces the time traditionally associated with TLC applications. It allows accurate dispensing of contents of a 100 µl syringe within 3 minutes and assures tight uniform spots for accurate test results. The AutoSpotter is equipped with eighteen channels for maximum testing capabilities. Special features and calibrated controls provide accurate, reproducible results every time.

### RDU™

|           |                            |
|-----------|----------------------------|
| EQOLE1480 | Romer® Derivatization Unit |
|-----------|----------------------------|

The Romer® Derivatization Unit (RDU™) is a photochemical post-column derivatization for the determination of aflatoxins by HPLC-FLD. For sensitive determination of aflatoxins, the aflatoxins B1 and G1 must be derivatized in order to enhance their natural fluorescence. This is done photochemically by irradiation with UV light at 254 nm with the RDU™. The method performance is equivalent to an electrochemical derivatization (e.g. Kobra Cell) as shown in the literature. Additionally, by using the RDU™ there is no need for additional purging and the lifetime of the HPLC system is increased because the RDU™ doesn't require any aggressive reagents to be added to the mobile phase, as this is the case for electrochemical methods.

### Romer® Cell

|           |             |
|-----------|-------------|
| EURCO1080 | Romer® Cell |
|-----------|-------------|

The unit enables electrochemical post-column derivatization for the determination of aflatoxins by HPLC-FLD.



Romer Labs currently operates 4 fully accredited service laboratories in Austria, the United Kingdom, Singapore and the United States.

The laboratories are equipped with cutting-edge technology in the fields of chromatography, DNA and immunological analysis.


Both the ISO 9001 certification and ISO 17025 accreditation guarantee reliable and accurate results. We uphold our standards of accuracy and reliability by participating regularly in official proficiency testing programs.

Our testing laboratories offer services for the analysis of mycotoxins, food allergens, GMOs, veterinary drug residues, pesticides, and meat speciation.



Romer Labs® Testing Solutions

# Analytical Service



*Well-thought-out quality control systems are important, but it is the analytical data that help to make decisions for fulfillment of quality.*

Analytical  
Service

# Analytical Service



## Analytical Service

Romer Labs is offering analytical services in its laboratories in Austria, Singapore, the United States and the United Kingdom. The following is a list of parameters and their availability in the respective labs. All four Romer Labs analytical service laboratories are accredited according to ISO 17025 and certified according to ISO 9001. The scope of accreditation is available on request.

| Analyte  | Austria | Singapore | USA | UK |
|--|---------|-----------|-----|----|
| <b>Mycotoxins</b>  |         |           |     |    |
| Multi-Mycotoxin analysis using LC-MS/MS  | x       | x         | x   |    |
| Multi-Mycotoxin analysis 50+   | x       | x         | x   |    |
| 3-Acetyl-Deoxynivalenol  | x       | x         | x   |    |
| 15-Acetyl-Deoxynivalenol   | x       | x         | x   |    |
| Aflatoxin B1, B2, G1, G2   | x       | x         | x   |    |
| Aflatoxin M1   | x       | x         | x   |    |
| Citrinin   |         |           |     | x  |
| Cyclopiazonic Acid   |         |           | x   |    |
| Diacetoxyscirpenol   | x       | x         | x   |    |
| Deoxynivalenol   | x       | x         | x   |    |
| Fumonisin B1, B2, B3   | x       | x         | x   |    |
| Fusarenon X  |         | x         | x   |    |
| HT-2 Toxin   | x       | x         | x   |    |
| Moniliformin   |         |           |     | x  |
| Neosolaniol  |         | x         | x   |    |
| Nivalenol  | x       | x         | x   |    |
| Ochratoxin A   | x       | x         | x   |    |
| Patulin  |         | x         | x   |    |
| Sterigmatocystin   | x       |           | x   |    |
| T-2 Toxin  | x       | x         | x   |    |
| Zearalenone  | x       | x         | x   |    |
| Ergot Alkaloids  | x       | x         |     |    |
| (Ergocornine, Ergocorninine, Ergocristine, Ergocristinine, Ergocryptine, Ergocryptinine, Ergometrine, Ergometrinine*, Ergosine, Ergosinine*, Ergotamine, Ergotaminine) |         |           |     |    |
| * not offered in Singapore   |         |           |     |    |
| <b>Contaminants</b>  |         |           |     |    |
| Ammelide   |         |           | x   |    |
| Ammeline   |         |           | x   |    |
| Cyanuric Acid  |         |           | x   |    |
| Melamine   |         | x         | x   |    |
| <b>Food Allergens</b>  |         |           |     |    |
| Almonds  | x       | x         | x   | x  |
| β-Lactoglobulin  | x       | x         | x   | x  |
| Brazil Nut   |         | x         | x   |    |
| Casein   | x       | x         | x   | x  |
| Cashew   | x       | x         | x   | x  |
| Celery   |         | x         |     | x  |
| Coconut  |         | x         | x   |    |
| Crustacea  | x       | x         | x   | x  |
| Egg  | x       | x         | x   | x  |
| Egg White  | x       | x         | x   | x  |
| Fish   | x       | x         | x   | x  |
| Gluten   | x       | x         | x   | x  |
| Hazelnut   | x       | x         | x   | x  |
| Histamine  | x       |           | x   |    |
| Lupin  | x       | x         | x   | x  |
| Lysozyme   |         |           | x   |    |
| Macadamia  |         | x         | x   | x  |
| Milk   | x       | x         | x   | x  |
| Mollusks   |         |           | x   |    |
| Mustard  | x       | x         | x   | x  |
| Oat  |         | x         |     | x  |
| Ovalbumin  |         |           | x   |    |

# Analytical Service



## Analytical Service

| Analyte  | Austria | Singapore | USA | UK |
|--|---------|-----------|-----|----|
| <b>Food Allergens</b>  |         |           |     |    |
| Peanut   | x       | x         | x   | x  |
| Pecan  |         | x         | x   | x  |
| Pine Nut   |         |           | x   |    |
| Pistachio  | x       | x         | x   | x  |
| Sesame   | x       | x         | x   | x  |
| Soy  | x       | x         | x   | x  |
| Walnut   | x       | x         | x   | x  |
| <b>Sugar determination</b>                                     |         |           |     |    |
| Lactose  | x       |           |     |    |
| <b>Drug Residues</b>   |         |           |     |    |
| Penicillins  |         | x         |     |    |
| Tetracyclines  |         | x         |     |    |
| β-Agonists   |         | x         |     |    |
| Chlorampenicol   |         | x         |     |    |
| Ciprofloxacin  |         | x         |     |    |
| Clenbuterol  |         | x         |     |    |
| Oxolinic acid  |         | x         |     |    |
| Nitrofurans  |         | x         |     |    |
| Ractopamine  |         | x         |     |    |
| Sulfonamides   |         | x         |     |    |
| <b>Pesticide Screening</b>                                     |         |           |     |    |
| Carbamates   |         | x         |     |    |
| DithioCarbamates   |         | x         |     |    |
| Organochlorus (OC)   |         | x         |     |    |
| Organophosphorus (OP)  |         | x         |     |    |
| Pyrethroids  |         | x         |     |    |
| <b>GMO</b>   |         |           |     |    |
| Qualitative GMO Screening<br>(35S-Promoter and nos-Terminator) |         |           |     | x  |
| GMO Analysis in Corn   |         |           | x   | x  |
| GMO Analysis in Soy  |         |           | x   | x  |
| <b>Speciation</b>  |         |           |     |    |
| Chicken  |         |           |     | x  |
| Cow  |         |           |     | x  |
| Fish Species   |         |           |     | x  |
| Horse  |         |           |     | x  |
| Pig  |         |           |     | x  |
| Rabbit   |         |           |     | x  |
| Sheep  |         |           |     | x  |
| Turkey   |         |           |     | x  |

For further details, please contact Romer Labs sales or the respective lab.

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