

# Product catalogue

## Clinical diagnostics

2018

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# R-Biopharm test systems at a glance



## RIDASCREEN®

- ELISA for antigen and antibody detection
- Ready-to-use reagents
- Easy test procedure
- Standardized incubation time
- Possibility of processing on automated ELISA-systems
- Evaluation by the RIDASOFT® Win.NET software



## RIDA®QUICK

- Reliable rapid test for antigen detection
- High sensitivity and specificity
- Agents distinguished by color
- 2 test formats:
  - Dipstick
  - Cassette



## RIDA®GENE

- Real-time PCR
- Contains all necessary components
- Reliable results due to included extraction control
- Can be run on commonly used real-time PCR instruments



### SeraSpot®

- Microspot array for antibody detection in autoimmune or infectious diseases
- For high throughput on common ELISA processors
- Ready-to-use reagents and universal test protocol
- Built-in controls and reference curve
- Cost and time efficient multiplex diagnostics



### RIDA qLine®

- Quantitative immunoblot for antibody detection (IgE) in serum
- Various allergene panels available



### Systems

- Flexible range of automated solutions
- Automated solutions for immunological and molecular tests
- ELISA automation solutions from small to high sample throughput
- Assistance in installation and routine by our application specialists





# Allergology

**Allergies are steadily increasing in industrialized countries. Nowadays, an allergy is defined as a specific hypersensitivity involving the immune system to substances which are actually harmless.**

The four allergy types (type I – IV) originally classified by Coombs and Gell have meanwhile been joined by type V.

## Type I allergy

The most frequent allergic reactions are type I reactions, which take place primarily on epithelial surfaces (skin, lungs, gastro-intestinal tract) and are characterized by the formation of specific immunoglobulin E against the allergens. These type I reactions are referred to as instant reactions and are the classic causes of allergic rhinitis, asthma and atopic dermatitis. The occurrence of this allergy type involves TH2 lymphocytes, which cause B lymphocytes to produce specific IgE antibodies, which are then bound to the surface of mast cells. On repeated contact with this allergen and cross-linking of at least 2 mast cell-bound IgE antibodies, the mast cell secretes the biogenic amine histamine, which causes the symptoms of the allergy.

## Type II and III allergies

Type II and III allergies are characterized by the formation of immunoglobulin M or G, with type II reactions acting against cell surfaces and type III reactions against soluble antigens. In type III reactions, the IgG antibodies form immunocomplexes with the allergens, which can cause

exogenic allergic alveolitis, for example. Furthermore, IgG antibodies against food stuff are suspect to mediate delayed food allergies.

## Type IV and V allergies

Type IV reactions are cellular reactions which predominantly involve T lymphocytes. The granulomatous type V allergy can be regarded as a variant of type IV allergy, as it also triggers a cell-mediated immune reaction, but involves macrophages instead of T lymphocytes.

## Allergy diagnostics

As a rule, the allergens are proteins from natural sources such as pollens, animal epithelia, insect venoms, foodstuffs, mites etc., although medicines such as penicillin and its derivatives can also trigger type I allergies. Patients show often a wide range of varying symptoms and sensitization patterns against several allergens. It is necessary to test a patient's blood whenever an allergic response or severe reaction is suspected. The allergy diagnostics of R-Biopharm AG offers two quantitative test methods for the antibody detection, the enzyme immunoassay (RIDASCREEN® Allergy ELISA) and the immunoblot (RIDA qLine® Allergy).



Immuno-  
blot



ELISA



Microspot  
array



Accessories



## Allergology

### Immunoblots

Product	Description	Matrix	Tests	Art. No.
<b>Immunoblots for antibody detection</b>				
RIDA qLine®Allergy Panel 1	Immunoblot for quantitative determination of specific IgE in human serum or plasma (citrate) <ul style="list-style-type: none"> <li>• standard curve on each strip</li> <li>• 13 inhalative and 7 food allergens</li> <li>• Test membranes (nitrocellulose) in reaction troughs</li> </ul>	Serum/Plasma (citrate)	10	A6142
RIDA qLine®Allergy Panel 2	Immunoblot for quantitative determination of specific IgE in human serum or plasma (citrate) <ul style="list-style-type: none"> <li>• standard curve on each strip</li> <li>• 20 inhalative allergens</li> <li>• Test membranes (nitrocellulose) in reaction troughs</li> </ul>	Serum/Plasma (citrate)	10	A6242
RIDA qLine®Allergy Panel 3	Immunoblot for quantitative determination of specific IgE in human serum or plasma (citrate) <ul style="list-style-type: none"> <li>• standard curve on each strip</li> <li>• 20 Food allergens</li> <li>• Test membranes (nitrocellulose) in reaction troughs</li> </ul>	Serum/Plasma (citrate)	10	A6342
RIDA qLine®Allergy Panel 4	Immunoblot for quantitative determination of specific IgE in human serum or plasma (citrate) <ul style="list-style-type: none"> <li>• standard curve on each strip</li> <li>• 20 Allergens Pediatric panel</li> <li>• Test membranes (nitrocellulose) in reaction troughs</li> </ul>	Serum/Plasma (citrate)	10	A6442
<b>Accessory</b>				
RIDA®CCD-Inhibitor	Accessory for the inhibition of false positive results by cross-reactive anti-CCD IgE in human serum and plasma in in vitro diagnostics	Serum/Plasma (citrate)	25	ZA0601

Individual panels on request. Please ask your local distributor.



## Allergology

### ELISA – single allergen format

Product	Description	Matrix	Tests	Art. No.
<b>Enzyme immunoassays for antibody detection</b>				
RIDASCREEN® Total IgE	Enzyme immunoassay for the quantitative determination of total-IgE in serum <ul style="list-style-type: none"> <li>Incl. standards and controls</li> </ul>	Serum	96	A0141
RIDASCREEN® Allergen Disc	1 allergen disc for an enzyme immunoassay <ul style="list-style-type: none"> <li>For the quantitative determination of allergen-specific IgE/IgG in serum</li> <li>Without reagents</li> </ul> Order units: <ul style="list-style-type: none"> <li>Allergy Basic (3 x 8-well strips per allergen)</li> <li>Allergy Advance (12 x 8-well strip per panel of 8 allergens)</li> </ul>	Serum	1	A0049
RIDASCREEN® Spec. IgG Allergen Disc	1 allergen disc for an enzyme immunoassay <ul style="list-style-type: none"> <li>For the quantitative determination of allergen-specific IgG in serum</li> <li>Incl. Reagents</li> </ul>	Serum	1	A0629
RIDASCREEN® Spec. IgE Allergen Disc	1 allergen disc for an enzyme immunoassay <ul style="list-style-type: none"> <li>For the quantitative determination of allergen-specific IgE in serum</li> <li>Incl. Reagents</li> </ul> Order units: <ul style="list-style-type: none"> <li>Allergy Active (individually preassembled plate; minimum number of allergens: 42)</li> </ul>	Serum	1	A0249
<b>Accessories</b>				
RIDASCREEN® Spec. IgE Reagents	Set of reagents for an enzyme immunoassay <ul style="list-style-type: none"> <li>For the quantitative determination of allergen-specific IgE in serum</li> <li>Incl. standards and controls</li> </ul>	Serum	96	A0041
RIDASCREEN® Spec. IgE Reagents	Set of reagents for an enzyme immunoassay <ul style="list-style-type: none"> <li>For the quantitative determination of allergen-specific IgE in serum</li> <li>Incl. standards and controls</li> </ul>	Serum	192	A0040
RIDASCREEN® Spec. IgG Reagents	Set of reagents for an enzyme immunoassay <ul style="list-style-type: none"> <li>For the quantitative determination of allergen-specific IgG in serum</li> <li>Incl. standards and controls</li> </ul>	Serum	96	A0021







## Allergology

### Delayed food allergy diagnostics

Product	Description	Matrix	Tests	Art. No.
Enzyme immunoassays for detection of spec. IgG against food				
RIDASCREEN® Spec. IgG Foodscreen Customized Plate**	Enzyme immunoassay for the quantitative determination of specific IgG against food allergens <ul style="list-style-type: none"> <li>• Up to 90 allergens per plate</li> <li>• 1 plate is designed for 1 or more patients</li> <li>• Without reagents*</li> </ul>	Serum/ capillary blood	≥ 510 plates	A8101
RIDASCREEN® Spec. IgG Foodscreen Plate 1	Enzyme immunoassay for the quantitative determination of specific IgG against 90 common food allergens <ul style="list-style-type: none"> <li>• 1 plate is designed for 1 patient</li> <li>• Without reagents*</li> </ul>	Serum/ capillary blood	15 plates	A8121-15
RIDASCREEN® Spec. IgG Foodscreen Plate 2	Enzyme immunoassay for the quantitative determination of specific IgG against 90 alternative food allergens <ul style="list-style-type: none"> <li>• 1 plate is designed for 1 patient</li> <li>• Without reagents*</li> </ul>	Serum/ capillary blood	15 plates	A8221-15
RIDASCREEN® Spec. IgG Foodscreen Plate 3	Enzyme immunoassay for the quantitative determination of specific IgG against 90 rare food allergens and spices <ul style="list-style-type: none"> <li>• 1 plate is designed for 1 patient</li> <li>• Without reagents*</li> </ul>	Serum/ capillary blood	15 plates	A8321-15
RIDASCREEN® Spec. IgG Foodscreen Plate 6	Enzyme immunoassay for the quantitative determination of specific IgG against 44 food allergens <ul style="list-style-type: none"> <li>• 1 plate is designed for 2 patients</li> <li>• Without reagents*</li> </ul>	Serum/ capillary blood	15 plates	A8621-15
RIDASCREEN® Spec. IgG Foodscreen Prescreen 1	Enzyme immunoassay for the semi-quantitative determination of specific IgG against 22 common food allergens for screening purposes <ul style="list-style-type: none"> <li>• 1 plate is designed for 4 patients</li> <li>• Incl. Cut-Off control*</li> </ul>	Serum/ capillary blood	15 plates	A8921
RIDASCREEN® Spec. IgG Foodscreen Prescreen Customized**	Enzyme immunoassay for the semi-quantitative determination of specific IgG against food allergens for screening purposes <ul style="list-style-type: none"> <li>• 1 plate is designed for 4 patients</li> <li>• Incl. Cut-Off control*</li> </ul>	Serum/ capillary blood	≥ 510 plates	A8931

\* Required set of reagents: A8020. Please see "Delayed food allergy diagnostics".

\*\* Minimum order is 510 plates.





## Allergy

### Delayed food allergy diagnostics

Product	Description	Matrix	Tests	Art. No.
<b>Accessories</b>				
RIDASCREEN® Spec. IgG Foodscreen Reagents	Set of reagents for an enzyme immunoassay for the determination of specific IgG against food allergens <ul style="list-style-type: none"> <li>• Sufficient for 15 plates</li> </ul>	Serum/capillary blood	1 set of reagents	A8020
RIDASCREEN® Foodscreen*** Blood Collection Kit	Tool for collection and transport of human capillary blood sample <ul style="list-style-type: none"> <li>• Kit includes 1 blood collection card, 2 safety lancets, 2 bandages, 2 alcohol swabs</li> <li>• 1 kit is designed for 1 patient</li> </ul>	Capillary blood	1	A8025
RIDASCREEN® Foodscreen Blood Collection Card	Tool for collection and transport of human capillary blood sample <ul style="list-style-type: none"> <li>• Kit includes 100 blood collection cards</li> <li>• 1 card is designed for 1 patient</li> </ul>	Capillary blood	100	A8025-BCC
RIDASCREEN® Foodscreen Elution Buffer	100 ml of elution buffer to eluate capillary blood from the Blood Collection Card <ul style="list-style-type: none"> <li>• Accessory for A8025 and A8025-BCC</li> <li>• 4 ml are needed for two circle of the blood collection card filled with capillary blood</li> <li>• Sufficient for 40 blood filled circles from the blood collection card</li> </ul>	Capillary blood	–	A8025-EB



\*\*\* Minimum order is 25 Blood Collection Kits.

### Delayed food allergy diagnostics

<b>Microarrays for detection of spec. IgG against food</b>				
RIDA®CHIP FoodGuide 25	Microarray enzyme immunoassay (M-EIA) for the quantitative detection of 25 food specific IgG antibodies.	Serum	12	A8501
RIDA®CHIP FoodGuide 50	Microarray enzyme immunoassay (M-EIA) for the quantitative detection of 50 food specific IgG antibodies.	Serum	24	A8502
RIDA®CHIP FoodGuide 100	Microarray enzyme immunoassay (M-EIA) for the quantitative detection of 100 food specific IgG antibodies.	Serum	24	A8503







# Autoimmunity

**R-Biopharm offers you a new product line: *SeraSpot*®, the new microspot array for multiplex diagnostics of autoimmune diseases.**

In autoimmunity, the immune system attacks structures of its own body. Depending on the attacked structure (e.g. nerves, joints, liver), the symptoms and thus the kind of disease vary. Today, around 81 different autoimmune diseases are known. These can be either localized, i.e. organ-specific, or systemic autoimmune diseases.

Many autoimmune diseases are characterized by autoantibodies. The autoantibodies are either directly pathogenic (e.g. anti-GBM) or disease associated. They can be valuable as prognostic markers (e.g. anti-AMA-M2), helpful in patient monitoring (e.g. anti-dsDNA) or necessary for differential diagnosis (e.g. anti-Mi2).

Importantly, the earlier the diagnosis of AID is made the better the outcome is for the patient. This is especially important in progressive e.g. rheumatic, fibrotic diseases that lead to irreversible deficits.

## **Diagnostics of autoimmune diseases**

Autoantibody testing is a central element in the diagnosis and treatment of AID.

R-Biopharm offers *SeraSpot*®, a new microspot array for the diagnosis of autoimmune and infectious diseases.

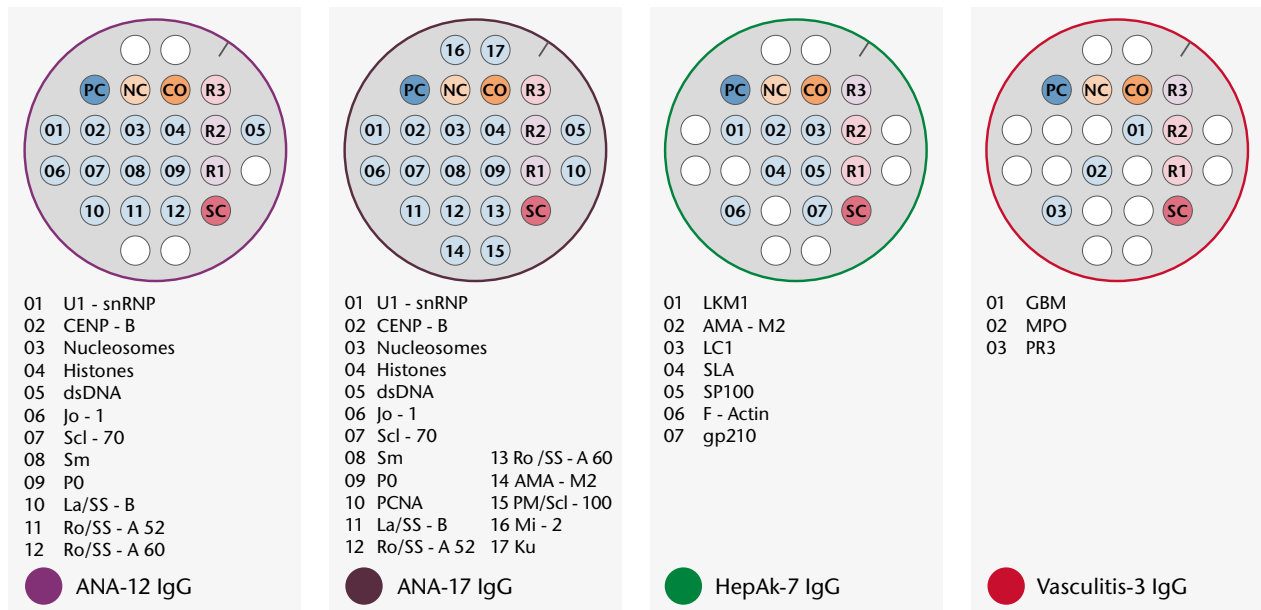
Today, the *SeraSpot*® platform comprises 4 different microspot arrays plus the microspot array scanner for the diagnosis of connective tissue disease, autoimmune liver diseases or systemic vasculitis and goodpasture disease.



Microspot  
array



## Overview of SeraSpot® tests with respective target antigens:



## Autoimmunity

### Autoimmune diseases

Product	Description	Matrix	Tests	Art. No.
<b>Microspot arrays</b>				
SeraSpot® ANA-12 IgG	Specific detection of IgG antibodies against 12 nuclear and cytoplasmatic antigens	Serum/ plasma	1 x 48 1 x 96 2 x 96	SP-002-12 G-S6 SP-002-12 G-S12 SP-002-12 G-S24
SeraSpot® ANA-17 IgG	Specific detection of IgG antibodies against 17 nuclear and cytoplasmatic antigens	Serum/ plasma	1 x 48 1 x 96 2 x 96	SP-002-17 G-S6 SP-002-17 G-S12 SP-002-17 G-S24
SeraSpot® HepAk-7 IgG	Specific detection of IgG antibodies in autoimmune liver diseases	Serum/ plasma	1 x 48 1 x 96 2 x 96	SP-004-7 G-S6 SP-004-7 G-S12 SP-004-7 G-S24
SeraSpot® Vaskulitis-3 IgG	Specific detection of IgG antibodies in systemic vasculitis	Serum/ plasma	1 x 48 1 x 96 2 x 96	SP-003-3 G-S6 SP-003-3 G-S12 SP-003-3 G-S24





# Bacteriology

**Communicable diseases remain the most common death cause in emerging economies and are a huge public health concern in developed countries.**

The health services are presented with a significant challenge in terms of diagnosis and treatment of infectious diseases. Effective use of the various diagnostic solutions can significantly improve the detection and control of infectious diseases caused by bacteria. The laboratory procedure must ensure that the information derived from the diagnostic test is reliable and delivered in a timely manner.

## Diagnostic solutions in clinical bacteriology

Although the media culture is still the most established method in clinical bacteriology, there are a rising number of diagnostic bacteriology laboratories that deploy

commercial IVD kits in their procedures. The validated, reliable and rapid solutions offer a great advancement over the labour- and time-consuming culture method, in particular with respect to specificity and sensitivity.

The bacteriology test portfolio from R-Biopharm offers a wide range of solutions that meets the diagnostic and organizational needs of small to large laboratories. You may choose from a variety of systems to test for a wide range of parameters including *Legionella* spp., *Mycoplasma* spp., *Bordetella* spp. and *Clostridium difficile* spp..







## Bacteriology

### *Bordetella* spp.

Product	Description	Matrix	Tests	Art. No.
Real-time PCR				
RIDA®GENE Bordetella	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Bordetella pertussis</i> , <i>Bordetella parapertussis</i> and <i>Bordetella holmesii</i> from human nasopharyngeal swabs and aspirates	Naso-pharyngeal swabs/ nasopharyngeal aspirates	100	PG2505
Enzyme immunoassays				
RIDASCREEN® Bordetella IgA Bordetella IgG Bordetella IgM	Specific detection of IgA, IgG or IgM antibodies against <i>Bordetella pertussis</i> and <i>Bordetella parapertussis</i> . Differentiation between infections and immune status after vaccination	Serum Serum Serum	96 96 96	K2511 K2521 K2531
RIDASCREEN® Bordetella PT IgA Bordetella PT IgG	Specific detection of IgA or IgG antibodies against toxin of <i>Bordetella pertussis</i> IgA- and IgG-analysis in international units (IU/ml)	Serum Serum	96 96	K2611 K2621



### *Borrelia* spp.

Enzyme immunoassays				
RIDASCREEN® Borrelia IgG Borrelia IgM	Specific detection of IgG or IgM antibodies against <i>Borrelia burgdorferi sensu lato</i>	Serum Serum	96 96	K3221 K3231
Microspot arrays				
SeraSpot® Anti-Borrelia-10 IgG	Specific detection of IgG antibodies against <i>Borrelia burgdorferi sensu lato</i>	Serum/ plasma	1 x 48 1 x 96 2 x 96	SP-006-10 G-S6 SP-006-10 G-S12 SP-006-10 G-S24
SeraSpot® Anti-Borrelia-10 IgM	Specific detection of IgM antibodies against <i>Borrelia burgdorferi sensu lato</i>	Serum/ plasma	1 x 48 1 x 96 2 x 96	SP-006-10 M-S6 SP-006-10 M-S12 SP-006-10 M-S24





## Bacteriology

### *Campylobacter* spp.

Product	Description	Matrix	Tests	Art. No.
<b>Real-time PCR</b>				
RIDA®GENE Bacterial Stool Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Salmonella</i> spp., <i>Campylobacter</i> spp. and <i>Yersinia enterocolitica</i> in human stool samples	Stool	100	PG2405
RIDA®GENE Bacterial Stool Panel I	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Salmonella</i> spp., <i>Campylobacter</i> spp., <i>EIEC/Shigella</i> spp. and <i>STEC</i> in human stool samples	Stool	100	PG2415
<b>Enzyme immunoassay</b>				
RIDASCREEN® <i>Campylobacter</i>	Enzyme immunoassay for the detection of <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i>	Stool	96	C2401
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® <i>Campylobacter</i> Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP2404
<b>Rapid test</b>				
RIDA®QUICK <i>Campylobacter</i>	Immunochromatographic lateral flow rapid assay for the detection of <i>Campylobacter</i> Single pouched cassettes	Stool	25	N2403
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK <i>Campylobacter</i> Positive Control	Positive control	–	1.8 ml	NP2404

### *Chlamydia* spp.

<b>Chlamydia</b>	<b>Enzyme immunoassay</b>			
RIDASCREEN® <i>Chlamydia</i> IgG/IgM	Specific detection of IgG or IgM antibodies against LPS antigen (LPS = lipopolysaccharide) of <i>Chlamydia</i>	Serum	96	KGM3101
<b><i>Chlamydia trachomatis</i></b>	<b>Enzyme immunoassays</b>			
RIDASCREEN® <i>Chlamydia trachomatis</i> IgA	Specific detection of IgA, IgG or IgM antibodies against outer membrane protein complex (COMP = Complexes of Outer Membrane Proteins) of <i>Chlamydia trachomatis</i>	Serum	96	K2911
<i>Chlamydia trachomatis</i> IgG/IgM		Serum	96	KGM2901
<b><i>Chlamydoghila pneumoniae</i></b>	<b>Enzyme immunoassays</b>			
RIDASCREEN® <i>Chlamydoghila pneumoniae</i> IgA	Specific detection of IgA, IgG or IgM antibodies against outer membrane protein complex (COMP = Complexes of Outer Membrane Proteins) of <i>Chlamydoghila pneumoniae</i>	Serum	96	K2811
<i>Chlamydoghila pneumoniae</i> IgG		Serum	96	K2821
<i>Chlamydoghila pneumoniae</i> IgM		Serum	96	K2831



## Bacteriology

### *Clostridium difficile*

Product	Description	Matrix	Tests	Art. No.
<b>Real-time PCR</b>				
RIDA®GENE CD Toxin A/B	Real-time PCR for the direct qualitative detection of <i>Clostridium difficile</i> toxin genes A (tcdA) and B (tcdB) in human stool samples and from cultures	Stool/ cultures	100	PG0825
RIDA®GENE Clostridium difficile	Real-time multiplex PCR for the direct qualitative detection of <i>Clostridium difficile</i> and <i>Clostridium difficile</i> toxin genes A (tcdA) and B (tcdB) in human stool samples and from cultures	Stool/ cultures	100	PG0835
RIDA®GENE Hospital Stool Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of Norovirus (genogroup I and II), Rotavirus and <i>Clostridium difficile</i> toxin genes A (tcdA) and B (tcdB) in human stool samples	Stool	100	PG0705
<b>Enzyme immunoassay</b>				
RIDASCREEN® Clostridium difficile GDH	Enzyme immunoassay for the detection of glutamate dehydrogenase of <i>Clostridium difficile</i>	Stool	96	C0701
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® Clostridium difficile GDH Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP0704
<b>Enzyme immunoassay</b>				
RIDASCREEN® Clostridium difficile Toxin A/B	Enzyme immunoassay for the detection of toxin A and B of <i>Clostridium difficile</i>	Stool	96	C0801
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® Clostridium difficile Toxin A/B Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP0804
<b>Rapid test</b>				
RIDA®QUICK Clostridium difficile GDH	Immunochromatographic lateral flow rapid assay for the detection of <i>Clostridium difficile</i> GDH Single pouched cassettes	Stool	25	N0703
<b>Control for RIDA®QUICK</b>				
RIDASCREEN® Clostridium difficile GDH Positive Control	Positive control	–	1.8 ml	NP0704
<b>Rapid test</b>				
RIDA®QUICK Clostridium difficile Toxin A/B	Immunochromatographic lateral flow rapid assay for the detection of Toxins A and B of <i>C. difficile</i> Single pouched cassettes	Stool	25	N0803
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK Clostridium difficile Toxin A/B Positive Control	Positive control	–	1.8 ml	NP0804



## Bacteriology

### *Clostridium perfringens*

Product	Description	Matrix	Tests	Art. No.
<b>Enzyme immunoassay</b>				
RIDASCREEN® <i>Clostridium perfringens</i> Enterotoxin	Enzyme immunoassay for detection of enterotoxin of <i>Clostridium perfringens</i>	Stool	96	C0601
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® <i>Clostridium perfringens</i> Enterotoxin Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP0604



### *Escherichia coli*

<b>Real-time PCR</b>				
RIDA®GENE EHEC/EPEC	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>EHEC</i> , <i>STEC</i> , <i>EPEC</i> and <i>EIEC/Shigella</i> spp. in human stool samples and cultures	Stool/ cultures	100	PG2205
RIDA®GENE EAEC	Real-time multiplex PCR for the direct qualitative detection and differentiation of enteroaggregative <i>E. coli</i> (EAEC) in human stool samples and cultures	Stool/ cultures	50	PG2215
RIDA®GENE ETEC/EIEC	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>ETEC</i> and <i>EIEC/Shigella</i> spp. in human stool samples and cultures	Stool/ cultures	100	PG2225
RIDA®GENE Bacterial Stool Panel I	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Salmonella</i> spp., <i>Campylobacter</i> spp., <i>EIEC/Shigella</i> spp. and <i>STEC</i> in human stool samples	Stool	100	PG2415
RIDA®GENE <i>E. coli</i> Stool Panel I	Real-time multiplex PCR for the direct qualitative detection and differentiation of shiga-toxin genes ( <i>stx1</i> and <i>stx2</i> ) of shiga-toxin producing <i>E. coli</i> (STEC) and <i>EPEC</i> in human stool samples and cultures	Stool/ cultures	100	PG2285





## Bacteriology

### *Escherichia coli*

Product	Description	Matrix	Tests	Art. No.
<b>Enzyme immunoassay</b>				
RIDASCREEN® Verotoxin	Enzyme immunoassay for the detection of verotoxins 1 and 2 (shigatoxins 1 and 2) of <i>Escherichia coli</i> bacteria	Stool mTSB-Bouillon	96	C2201
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® Verotoxin Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP2204
<b>Rapid test</b>				
RIDA®QUICK Verotoxin/O157 Combi	Immunochromatographic rapid assay for the detection of verotoxins and/or <i>E. coli</i> O157 Single pouched cassettes	mTSB-Bouillon	20	N2203
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK Verotoxin/O157 Combi Control	Positive control	–	1.8 ml	NP2204
<b>Enrichment broth</b>				
RIDA® Enrichment broth	mTSB-bouillon with Mitomycin C for the enrichment of verotoxin (shigatoxin)-producing <i>E. coli</i> bacteria	–	100 25	Z1000 Z1003





## Bacteriology

### *Helicobacter pylori*

Product	Description	Matrix	Tests	Art. No.
<b>Microspot arrays</b>				
SeraSpot® Anti-Helicobacter-6 IgA	Specific detection of IgA antibodies against <i>Helicobacter pylori</i>	Serum/ plasma	1 x 48 1 x 96	SP-007-6 A-S6 SP-007-6 A-S12
SeraSpot® Anti-Helicobacter-6 IgG	Specific detection of IgG antibodies against <i>Helicobacter pylori</i>	Serum/ plasma	1 x 48 1 x 96	SP-007-6 G-S6 SP-007-6 G-S12
<b>Real-time PCR</b>				
RIDA®GENE <i>Helicobacter pylori</i>	Real-time PCR for the direct qualitative detection of <i>Helicobacter pylori</i> and its resistance to clarithromycin in human biopsy tissue	Biopsy	100	PG2305
<b>Enzyme immunoassays</b>				
RIDASCREEN® <i>Helicobacter</i> IgA <i>Helicobacter</i> IgG	Specific detection of IgA or IgG antibodies against <i>Helicobacter pylori</i>	Serum Serum	96 96	K2311 K2321
<b>Enzyme immunoassay</b>				
RIDASCREEN® <i>Helicobacter pylori</i>	Enzyme immunoassay for the detection of <i>Helicobacter pylori</i>	Stool	96	C2302
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® <i>Helicobacter pylori</i> Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP2304
<b>Rapid test</b>				
RIDA®QUICK <i>Helicobacter pylori</i>	Immunochromatographic lateral flow rapid assay for the detection of <i>Helicobacter pylori</i> Single pouched cassettes	Stool	25	N2303
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK <i>Helicobacter pylori</i> Positive Control	Positive control	–	1.8 ml	NP2304







## Bacteriology

### *Legionella* spp.

Product	Description	Matrix	Tests	Art. No.
<b>Real-time PCR</b>				
RIDA®GENE Legionella	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Legionella</i> spp. and <i>Legionella pneumophila</i> from human sputum, BAL and tracheal secretion	Sputum/ BAL/tracheal secretion	100	PG8005
<b>Enzyme immunoassay</b>				
RIDASCREEN® Legionella	Enzyme immunoassay for the detection of <i>Legionella pneumophila</i>	Urine	96	C8001
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® Legionella Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP8004
<b>Immunofluorescence assay</b>				
RIDA® FLUOR Legionella IgG (3 Pools)	Row 1: SG 1 - 6 Row 2: SG 7 - 14 Row 3: L. boz-dum-gor-jord-longb-mic Immunofluorescence assay for detection of IgG antibodies against <i>Legionella pneumophila</i> serogroup 1 - 14 and six non-pneumophila species of <i>Legionella</i>	Serum	10 x 30	I8521
<b>Slides for immunofluorescence assay</b>				
RIDA® FLUOR Legionella IgG Slides (3 Pools)	Row 1: SG 1 - 6 Row 2: SG 7 - 14 Row 3: L. boz-dum-gor-jord-longb-mic	Serum	10 x 30	I8525
<b>Controls for immunofluorescence assays</b>				
RIDA® FLUOR Legionella IgG Negative control	Negative control IgG	Serum	0.2 ml	I8521C00
RIDA® FLUOR Legionella IgG Positive control	Positive control IgG	Serum	0.2 ml	I8521C01





## Bacteriology

### Methicillin-resistant/methicillin-sensitive *Staphylococcus aureus*

Product	Description	Matrix	Tests	Art. No.
Real-time PCR				
RIDA®GENE MRSA	Real-time multiplex PCR for the direct qualitative detection of MRSA from human swab specimens (nose, nose/throat, axilla/groin/perineum, wound) and cultures	Swab specimens (nose/throat, axilla/groin/perineum, wound)/cultures	100	PG0605
RIDA®GENE MRSA LC2.0	Real-time multiplex PCR for the direct qualitative detection of MRSA from human swab specimens (nose, nose/throat, axilla/groin/perineum, wound) and cultures on the LightCycler® 2.0	Swab specimens (nose/throat, axilla/groin/perineum, wound)/cultures	100	PG0625
RIDA®GENE PVL	Real-time PCR for the direct qualitative detection of the PVL-gene (Panton-Valentine leukocidine) from human swab specimens (nose, wound) and cultures	Swab specimens (nose, wound)/cultures	100	PG0645



### *Mycoplasma* spp.

Real-time PCR				
RIDA®GENE STI Mycoplasma Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Mycoplasma hominis</i> , <i>Mycoplasma genitalium</i> and <i>Ureaplasma urealyticum/parvum</i> in human genital swabs and urine	Swab/urine	100	PG4945
RIDA®GENE Mycoplasma pneumoniae	Real-time PCR for the direct qualitative detection of <i>Mycoplasma pneumoniae</i> from human sputum, BAL and tracheal secretion	Sputum/BAL/tracheal secretion	100	PG4305
Enzyme immunoassays				
RIDASCREEN® Mycoplasma pneumoniae IgA	Specific detection of IgA, IgG or IgM antibodies against <i>Mycoplasma pneumoniae</i>	Serum	96	K4311
Mycoplasma pneumoniae IgG		Serum	96	K4321
Mycoplasma pneumoniae IgM		Serum	96	K4331





## Bacteriology

### *Treponema pallidum*

Product	Description	Matrix	Tests	Art. No.
Microspot arrays				
SeraSpot® Anti-Treponema-4 IgG	Specific detection of IgG antibodies against <i>Treponema pallidum</i>	Serum/ plasma	1 x 48 1 x 96	SP-010-4 G-S6 SP-010-4 G-S12
SeraSpot® Anti-Treponema-4 IgM	Specific detection of IgM antibodies against <i>Treponema pallidum</i>	Serum/ plasma	1 x 48 1 x 96	SP-010-4 M-S6 SP-010-4 M-S12



### *Yersinia enterocolitica*

Real-time PCR				
RIDA®GENE Bacterial Stool Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Salmonella</i> spp., <i>Campylobacter</i> spp. and <i>Yersinia enterocolitica</i> in human stool samples	Stool	100	PG2405
Microspot arrays				
SeraSpot® Anti-Yersinia-6 IgA	Specific detection of IgA antibodies against <i>Yersinia enterocolitica</i>	Serum/ plasma	1 x 48 1 x 96 2 x 96	SP-005-6 A-S6 SP-005-6 A-S12 SP-005-6 A-S24
SeraSpot® Anti-Yersinia-6 IgG	Specific detection of IgG antibodies against <i>Yersinia enterocolitica</i>	Serum/ plasma	1 x 48 1 x 96 2 x 96	SP-005-6 G-S6 SP-005-6 G-S12 SP-005-6 G-S24





## Bacteriology

### Various

Product	Description	Matrix	Tests	Art. No.
<b>Akkermansia muciniphila</b>				
RIDA®GENE Akkermansia muciniphila	Real-time multiplex PCR for the direct qualitative or quantitative detection of <i>Akkermansia muciniphila</i> in human stool samples	Stool	100	PG0145
<b>Diphtherie</b>				
RIDASCREEN® Diphtherie IgG	Specific detection of IgG antibodies against diphtheria toxoid. Analysis in international units (IU/ml)	Serum	96	K3821
<b>Faecalibacterium prausnitzii</b>				
RIDA®GENE Faecalibacterium prausnitzii	Real-time multiplex PCR for the direct qualitative or quantitative detection of <i>Faecalibacterium prausnitzii</i> in human stool samples	Stool	100	PG0155
<b>Bacteroides/Clostridium Cluster XIVa – Real-time PCR</b>				
RIDA®GENE Gut Balance	Real-time multiplex PCR for the direct qualitative or quantitative detection and differentiation of <i>Bacteroides</i> and <i>Clostridium</i> -Cluster XIVa in human stool samples	Stool	100	PG0105
<b>Tetanus</b>				
RIDASCREEN® Tetanus IgG	Specific detection of IgG antibodies against tetanus toxoid. Analysis in international units (IU/ml)	Serum	96	K3721

### Accessories

<b>Color compensation</b>				
RIDA®GENE Color Compensation Kit I	To generate a Color Compensation File for 3- and 4-plex RIDA®GENE real-time PCR experiments on the LightCycler®480II	–	3	PG0001
RIDA®GENE Color Compensation Kit II	To generate a Color Compensation File for RIDA®GENE real-time PCR experiments on the LightCycler® 1.5/2.0	–	3	PG0002
RIDA®GENE Color Compensation Kit IV	To generate a Color Compensation File for 5-plex RIDA®GENE real-time PCR experiments on the LightCycler® 480II	–	3	PG0004
<b>DNA/RNA extraction</b>				
RIDA® Xtract	Spin-filter based extraction kit for the simultaneous isolation and purification of DNA and RNA in various matrices (serum/ plasma/ cerebral fluid/ cell culture supernatant/ other cell free body fluids (e.g. urine)/ swabs/tissue biopsies/stool)	see description	250 preparations	PGZ001
<b>Accessory for RIDASCREEN® antibody detection tests</b>				
RIDA® RF-Absorbens	Anti-human IgG for absorption of rheumatoid factors (RF) and IgG antibodies in human serum or plasma	Serum/ plasma	100	Z0202





# Gastroenterology

Our gastroenterology product portfolio is not only dedicated to the advanced diagnosis of gut-related diseases such as inflammatory bowel disease or pancreatic insufficiency but also perfectly suited for the prevention of gut-related diseases such as colon cancer.

The ELISA tests are suited for single plate or medium-high-throughput analysis on automated readers. Below, you can find the biological markers and their diagnostic relevance at a glance.

## Biomarkers for clinical diagnostics

Biological markers (biomarkers) are measurable indicators for specific conditions. The following biomarkers are relevant in gastroenterology:

- **Calprotectin** is a highly specific indicator of gastrointestinal inflammation which is used for the differentiation of IBD and IBS and for treatment monitoring.
- **Haemoglobin** is a very efficient marker for colon cancer screening. The antibody-based tests RIDASCREEN® Haemoglobin and RIDASCREEN®

Haemo-/Haptoglobin Complex are more specific than Guaiac-based tests. A combined testing of both parameters increases the probability to detect adenomas.

- **$\alpha$ 1-antitrypsin and sIgA** indicate the integrity of the gut wall. This is relevant for monitoring and diagnosing a leaky gut syndrome.
- **Pancreatic elastase and pankrin** are used for the detection of pancreatic insufficiency and pancreatitis.

## Therapeutic drug monitoring

Therapeutic drug monitoring of infliximab, adalimumab and vedolizumab supports the treatment optimization and the reduction of treatment costs.



ELISA



Lateral Flow



Accessories





## Colon Cancer Prevention

Product	Description	Matrix	Tests	Art. No.
<b>Enzyme immunoassays</b>				
RIDASCREEN® Haemoglobin	Enzyme immunoassay for the quantitative determination of haemoglobin	Stool	96	G09030
RIDASCREEN® Haemo-/Haptoglobin Complex	Enzyme immunoassay for the quantitative determination of haemoglobin/haptoglobin complex	Stool	96	G09031
<b>Stool collection tubes</b>				
RIDA® TUBE Haemoglobin	For collection and preparation of stool samples, • only use with RIDASCREEN® Haemoglobin (G09030) and RIDASCREEN® Haemo-/Haptoglobin Complex (G09031)	–	50	GZ3012



## Inflammatory Bowel Disease

<b>Enzyme immunoassays</b>				
RIDASCREEN® $\alpha_1$ -Antitrypsin	Enzyme immunoassay for the quantitative determination of $\alpha_1$ -Antitrypsin	Stool	96	G09034
RIDASCREEN® sIgA	Enzyme immunoassay for the quantitative determination of secretoric IgA	Stool	96	G09035
<b>Stool collection tubes</b>				
RIDA® TUBE	For collection and preparation of stool samples, • unfilled; to use after internal validation	–	50	GZ3013
<b>Enzyme immunoassay</b>				
RIDASCREEN® Calprotectin	Enzyme immunoassay for the quantitative determination of calprotectin	Stool	96	G09036
<b>Stool collection tubes</b>				
RIDA® TUBE Calprotectin	For the collection and preparation of stool samples, • only for use with RIDASCREEN® Calprotectin (G09036)	–	50	GZ3016





## Gastroenterology

### Pancreatic Diagnostics

Product	Description	Matrix	Tests	Art. No.
<b>Enzyme immunoassays</b>				
Pancreatic Elastase ELISA	Enzyme immunoassay for the quantitative determination of pancreatic elastase	Stool	96	G09038
Pancreatic Elastase ELISA (SK15)	Enzyme immunoassay for the quantitative determination of pancreatic elastase; additional standard (SK15)	Stool	96	G09040
Pankrin® ELISA	Enzyme immunoassay for the detection of pancreatic elastase and other pancreatic enzymes	Serum	96	G09039
<b>Accessory</b>				
Stool Preparation Set	For collection and preparation of stool samples, • only use with Pancreatic Elastase ELISA G09038 and G09040	Serum/ Plasma	45	GZ3008





## Therapeutic Drug Monitoring (TDM)

Product	Description	Matrix	Tests	Art. No.
<b>Enzyme immunoassays</b>				
RIDASCREEN® ADM Monitoring	Enzyme immunoassay for the quantitative determination of adalimumab (ADM)	Serum/ Plasma	96	G09043
RIDASCREEN® Anti-ADM Antibodies	Enzyme immunoassay for the quantitative determination of antibodies to adalimumab (ADM)	Serum/ Plasma	96	G09044
RIDASCREEN® IFX Monitoring	Enzyme immunoassay for the quantitative determination of infliximab (IFX) and its biosimilars	Serum/ Plasma	96	G09041
RIDASCREEN® Anti-IFX Antibodies	Enzyme immunoassay for the quantitative determination of antibodies to infliximab (IFX) and its biosimilars	Serum/ Plasma	96	G09042
RIDASCREEN® VDZ Monitoring	Enzyme immunoassay for the quantitative determination of vedolizumab (VDZ)	Serum/ Plasma	96	G09045
<b>Rapid tests</b>				
RIDA®QUICK ADM Monitoring	Immunochromatographic lateral flow assay for the quantitative determination of adalimumab (ADM)	Serum/ Plasma	25	GN3043
RIDA®QUICK IFX Monitoring	Immunochromatographic lateral flow assay for the quantitative determination of infliximab (IFX) and its biosimilars	Serum/ Plasma	25	GN3041
<b>Positive controls for RIDA®QUICK</b>				
RIDA®QUICK ADM Monitoring Control Set	Positive controls • accessory for GN3043	–	–	GP3043
RIDA®QUICK IFX Monitoring Control Set	Positive controls • accessory for GN3041	–	–	GP3041





# Mycology

**The incidence of fungal infections is increasing, based on some recent evidence. It has been calculated that infections with fungi occur in approximately a billion people each year.**

Although fungi play many essential roles in human homeostasis, they may also constitute health burden for certain groups of patients. When the host–fungal pathogen balance is disturbed, a fungal infection may lead to serious consequences. Proper detection of the growth of the fungal agents is therefore of high importance in clinical microbiology. Common fungal infections include:

*Candida albicans* is part of the human microflora. Spread of *Candida* in body tissues causes a systemic candidiasis. Excessive and unimpeded growth is generated by a disruption of the sensitive balance and manifests itself in form of oral and/or vaginal soar.

*Pneumocystis jirovecii* does not cause any harm in healthy people and is widely spread among the normal population. However, immunocompromised people infected with *Pneumocystis jirovecii*, develop pneumonia with symptoms including dry cough, shortness of breath, tachypnoe and fever. *Pneumocystis jirovecii* causes respiratory infections and is the most common opportunistic illness in HIV-infected people.

## Diagnostic solutions for mycology

The mycology tests portfolio from R-Biopharm offers ELISA and PCR technologies that meet the diagnostic needs of laboratories.



Real-time  
PCR



ELISA



Accessories





## Mycology

### Fungi

Product	Description	Matrix	Tests	Art. No.
<i>Pneumocystis jirovecii</i>	Real-time PCR			
RIDA® GENE Pneumocystis jirovecii	Real-time PCR for the direct qualitative or quantitative detection of <i>Pneumocystis jirovecii</i> from BAL	BAL	100	PG1905



### Accessories

DNA/RNA extraction				
RIDA® Xtract	Spin-filter based extraction kit for the simultaneous isolation and purification of DNA and RNA in various matrices (serum/ plasma/ cerebral fluid/ cell culture supernatant/ other cell free body fluids (e.g. urine)/ swabs/tissue biopsies/stool)	see description	250 preparations	PGZ001





# Parasitology

Infections with parasites are very common in tropical climate regions where the most common example of such an infection is malaria. In non-tropical areas, the most typical diseases caused by parasites are trichomoniasis, giardiasis, cryptosporidiosis, amebiasis and toxoplasmosis.

Parasitic infections are caused by three types of organisms: protozoa, helminths and ectoparasites. Infections with protozoa can occur by, for instance, drinking water containing the protozoa organisms' cells or through food that was undercooked. *Giardia lamblia*, *Cryptosporidium parvum*, *Entamoeba histolytica* and *Dientamoeba fragilis* are the most important diarrhea-causing protozoa.

Due to the ease of spread, fast and reliable diagnosis of a parasitic infection at an early stage is crucial for an effective therapy. Immunoassays and molecular

diagnostics enable detection and differentiation of parasitic infections sooner than traditional methods, such as microscopy.

## Innovative diagnostic solutions for parasitology

R-Biopharm offers various technologies for parasitology that meet the diagnostic and organizational needs of small to large laboratories. You may choose from different diagnostic systems to test for a variety of parasites including *Entamoeba*, *Giardia* and *Cryptosporidium*. We also offer a parasitic stool panel.



Real-time  
PCR



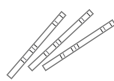
ELISA



Microspot  
array



Lateral  
Flow



Line blot



Accessories







## Parasitology

### *Cryptosporidium* spp.

Product	Description	Matrix	Tests	Art. No.
<b>Real-time PCR</b>				
RIDA®GENE Parasitic Stool Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp. and <i>Dientamoeba fragilis</i> (melting curve) in human stool samples	Stool	100	PG1705
RIDA®GENE Parasitic Stool Panel I	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp. and <i>Dientamoeba fragilis</i> in human stool samples	Stool	100	PG1715
RIDA®GENE Parasitic Stool Panel II	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> and <i>Cryptosporidium</i> spp. in human stool samples	Stool	100	PG1725
<b>Enzyme immunoassay</b>				
RIDASCREEN® Cryptosporidium	Enzyme immunoassay for the detection of <i>Cryptosporidium parvum</i> and <i>Cryptosporidium hominis</i>	Stool	96	C1201
<b>Reference control for RIDASCREEN® ELISA</b>				
RIDASCREEN® Cryptosporidium Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP1204
<b>Enzyme immunoassay</b>				
RIDASCREEN® Cryptosporidium/Giardia Combi	Enzyme immunoassay for the detection of <i>Cryptosporidium parvum</i> , <i>Cryptosporidium hominis</i> and <i>Giardia lamblia</i>	Stool	96	C1121
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® Cryptosporidium/Giardia Combi Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP1124





## Parasitology

### *Cryptosporidium* spp.

Product	Description	Matrix	Tests	Art. No.
<b>Rapid tests</b>				
RIDA®QUICK <i>Cryptosporidium</i>	Immunochromatographic rapid assay for the detection of <i>Cryptosporidium parvum</i> and <i>Cryptosporidium hominis</i> Single pouched cassettes	Stool	20	N1203
RIDA®QUICK <i>Cryptosporidium</i> /Giardia Combi	Immunochromatographic rapid assay for the detection of <i>Cryptosporidium parvum</i> , <i>Cryptosporidium hominis</i> and/or <i>Giardia lamblia</i> Box with strips	Stool	25	N1122
RIDA®QUICK <i>Cryptosporidium</i> /Giardia Combi	Single pouched cassettes	Stool	20	N1123
RIDA®QUICK <i>Cryptosporidium</i> /Giardia/Entamoeba Combi	Immunochromatographic rapid assay for the detection of <i>Cryptosporidium</i> and/or <i>Giardia</i> and/or <i>Entamoeba</i> Box with strips	Stool	25	N1722
RIDA®QUICK <i>Cryptosporidium</i> /Giardia/Entamoeba Combi	Single pouched cassettes	Stool	20	N1723
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK Parasite Combi Control	Positive control	–	1.8 ml	NP1704



### *Dientamoeba fragilis*

<b>Real-time PCR</b>				
RIDA®GENE <i>Dientamoeba fragilis</i>	Real-time PCR for the direct qualitative detection of <i>Dientamoeba fragilis</i> in human stool samples	Stool	100	PG1745
RIDA®GENE Parasitic Stool Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp. and <i>Dientamoeba fragilis</i> (melting curve) in human stool samples	Stool	100	PG1705
RIDA®GENE Parasitic Stool Panel I	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp. and <i>Dientamoeba fragilis</i> in human stool samples	Stool	100	PG1715





## Parasitology

### *Entamoeba* spp.

Product	Description	Matrix	Tests	Art. No.
<b>Real-time PCR</b>				
RIDA®GENE <i>Entamoeba histolytica</i>	Real-time PCR for the direct qualitative detection of <i>Entamoeba histolytica</i> in human stool samples and liver abscess puncture	Stool/liver abscess puncture	100	PG1735
RIDA®GENE Parasitic Stool Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp. and <i>Dientamoeba fragilis</i> (melting curve) in human stool samples	Stool	100	PG1705
RIDA®GENE Parasitic Stool Panel I	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp. and <i>Dientamoeba fragilis</i> in human stool samples	Stool	100	PG1715
RIDA®GENE Parasitic Stool Panel II	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> and <i>Cryptosporidium</i> spp. in human stool samples	Stool	100	PG1725
<b><i>Entamoeba</i> Enzyme immunoassays</b>				
RIDASCREEN® <i>Entamoeba histolytica</i> IgG	Specific detection of IgG antibodies against <i>Entamoeba histolytica</i>	Serum	96	K1721
RIDASCREEN® <i>Entamoeba</i>	Enzyme immunoassay for the detection of <i>Entamoeba histolytica</i> / <i>Entamoeba dispar</i>	Stool	96	C1701
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® <i>Entamoeba</i> Reference Controls	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP1704
<b>Rapid test</b>				
RIDA®QUICK <i>Entamoeba</i>	Immunochromatographic rapid assay for the detection of <i>Entamoeba histolytica</i> / <i>Entamoeba dispar</i> Single pouched cassettes	Stool	20	N1703
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK Parasite Combi Control	Positive control	–	1.8 ml	NP1704





## Parasitology

### *Giardia lamblia*

Product	Description	Matrix	Tests	Art. No.
<b>Real-time PCR</b>				
RIDA®GENE Parasitic Stool Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp. and <i>Dientamoeba fragilis</i> (melting curve) in human stool samples	Stool	100	PG1705
RIDA®GENE Parasitic Stool Panel I	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> , <i>Cryptosporidium</i> spp. and <i>Dientamoeba fragilis</i> in human stool samples	Stool	100	PG1715
RIDA®GENE Parasitic Stool Panel II	Real-time multiplex PCR for the direct qualitative detection and differentiation of <i>Giardia lamblia</i> , <i>Entamoeba histolytica</i> and <i>Cryptosporidium</i> spp. in human stool samples	Stool	100	PG1725
<b>Enzyme immunoassay</b>				
RIDASCREEN® Giardia	Enzyme immunoassay for the detection of <i>Giardia lamblia</i>	Stool	96	C1101
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® Giardia Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP1104
<b>Rapid test</b>				
RIDA®QUICK Giardia	Immunochromatographic rapid assay for the detection of <i>Giardia lamblia</i> Single pouched cassettes	Stool	20	N1103
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK Parasite Combi Control	Positive control	–	1.8 ml	NP1704

### *Plasmodium* spp.

<b>Enzyme immunoassay</b>				
RIDASCREEN® Malaria Ab-Screening	Enzyme immunoassay for the detection of IgG and IgM antibodies to <i>Plasmodium</i> spp.	Serum/ Plasma (citrate)	96	K8341
<b>Rapid test</b>				
RIDA®QUICK Malaria	Immunochromatographic rapid assay for the detection of <i>Plasmodium</i> species Single pouched cassettes	Blood Blood	25 5	N7006 N7007
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK Malaria Positive Control	Positive control	–	1.8 ml	NP7004



## Parasitology

### Various

Product	Description	Matrix	Tests	Art. No.
<b><i>Trichomonas vaginalis</i></b>	<b>Real-time PCR</b>			
RIDA®GENE Trichomonas vaginalis	Real-time PCR for the direct qualitative detection of <i>Trichomonas vaginalis</i> in human genital swabs and urine	Swab/urine	100	PG4975
<b><i>E. granulosus/multilocularis</i></b>	<b>Enzyme immunoassay</b>			
RIDASCREEN® Echinococcus IgG	Specific detection of IgG antibodies against <i>Echinococcus granulosus</i> and <i>Echinococcus multilocularis</i>	Serum	96	K7621
<b><i>Leshmania infantum</i></b>	<b>Enzyme immunoassay</b>			
RIDASCREEN® Leshmania IgG	Specific detection of IgG antibodies against <i>Leishmania infantum</i>	Serum	96	K7321
<b><i>Taenia solium</i></b>	<b>Enzyme immunoassay</b>			
RIDASCREEN® Taenia solium IgG	Specific detection of IgG antibodies against the larval forms of <i>Taenia solium</i> (cysticercosis)	Serum	96	K7721
<b><i>Toxocara canis</i></b>	<b>Enzyme immunoassay</b>			
RIDASCREEN® Toxocara IgG	Specific detection of IgG antibodies against <i>Toxocara canis</i>	Serum	96	K7421
<b><i>Trichinella spiralis</i></b>	<b>Enzyme immunoassay</b>			
NovaLisa™ Trichinella spiralis	Specific detection of IgG antibodies against <i>Trichinella spiralis</i>	Serum/ Plasma (citrate)	96	TRIG0480





## Parasitology

### Accessories

Product	Description	Matrix	Tests	Art. No.
<b>Accessories</b>				
<b>Color compensation</b>				
RIDA®GENE Color Compensation Kit I	To generate a Color Compensation File for 3- and 4-plex RIDA®GENE real-time PCR experiments on the LightCycler®480II	–	3	PG0001
RIDA®GENE Color Compensation Kit II	To generate a Color Compensation File for RIDA®GENE real-time PCR experiments on the LightCycler® 1.5/2.0	–	3	PG0002
RIDA®GENE Color Compensation Kit IV	To generate a Color Compensation File for 5-plex RIDA®GENE real-time PCR experiments on the LightCycler® 480II	–	3	PG0004
<b>DNA/RNA extraction</b>				
RIDA® Xtract	Spin-filter based extraction kit for the simultaneous isolation and purification of DNA and RNA in various matrices (serum/ plasma/ cerebral fluid/ cell culture supernatant/ other cell free body fluids (e.g. urine)/ swabs/tissue biopsies/stool)	see description	250 preparations	PGZ001







# Virology

**Clinical virology has been rapidly changing during the last years. A modern clinical virology laboratory performs various tests, such as rapid antigen testing, serology or molecular diagnostics in order to provide the best services to the healthcare institutions and patients.**

Effective use of these diagnostic platforms enables the timely detection and control of infectious diseases caused by viral agents. We offer a rich portfolio of parameters and technologies for clinical virology, with a particular focus on viruses causing gastrointestinal infections and respiratory infections.

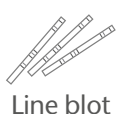
## **Norovirus diagnostics: fast diagnostics in outbreaks – always on the forefront**

Noroviruses are a major cause of gastroenteritis world-wide with an estimated 23 million cases a year in the USA. They are frequently the reason of outbreaks in communal facilities, for instance nursing homes, hospitals, prisons and cruise ships. Since norovirus outbreaks are reported more often than outbreaks caused by bacterial pathogens, they may have a considerable impact on public health.

The reliable norovirus diagnostic tests from R-Biopharm help clinical laboratories of all sizes detect the infection with norovirus in a simple and fast manner. Depending on their needs, laboratories may pick from our ELISA, rapid tests or PCR product portfolio.

## **Innovative diagnostic solutions for virology**

Our virology catalogue offers technologies that meet the diagnostic and organizational needs of small to large laboratories. You may choose from different systems to test for a variety of viral pathogens including Norovirus, Adenovirus, Astrovirus, Enterovirus, Parvovirus, Rotavirus, Sapovirus, Influenza, Parainfluenza, RSV, HSV, FSME, Mumps, Measles and Malaria.







## Virology

### Adenovirus

Product	Description	Matrix	Tests	Art. No.
<b>Real-time RT-PCR</b>				
RIDA®GENE Adenovirus	Real-time PCR for the direct qualitative detection of Adenovirus from human throat throat washes, sputum, BAL and stool	Throat rinsing fluid/ sputum/ BAL/stool	100	PG1005
RIDA®GENE Viral Stool Panel I	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Norovirus, Rotavirus, Adenovirus 40/41 and Astrovirus in human stool samples	Stool	100	PG1315
RIDA®GENE Viral Stool Panel II	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Rotavirus, Adenovirus 40/41 and Astrovirus in human stool samples	Stool	100	PG1325
<b>Enzyme immunoassay</b>				
RIDASCREEN® Adenovirus	Enzyme immunoassay for the detection of Adenoviruses	Stool	96	C1001
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® Adenovirus Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP1004
<b>Rapid tests</b>				
RIDA®QUICK Rotavirus/Adenovirus Combi	Immunochromatographic rapid assay for the detection of Rotaviruses and/or Adenoviruses Box with strips	Stool	25	N1002
RIDA®QUICK Rotavirus/Adenovirus Combi	Single pouched cassettes	Stool	20	N1003
RIDA®QUICK Rotavirus/Adenovirus/Norovirus Combi	Immunochromatographic rapid assay for the detection of Rotaviruses and/or Adenoviruses and/or Noroviruses Single pouched cassettes	Stool	20	N1903
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK Rotavirus/Adenovirus Combi Control	Positive control	–	1.8 ml	NP1904
<b>Sample diluent for RIDA®QUICK</b>				
Rotavirus/Adenovirus Sample diluent	Tubes with 1.5 ml sample diluent	Stool	25	ZN1004





## Virology

### Astrovirus

Product	Description	Matrix	Tests	Art. No.
<b>Real-time RT-PCR</b>				
RIDA®GENE Viral Stool Panel I	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Norovirus, Rotavirus, Adenovirus 40/41 and Astrovirus in human stool samples	Stool	100	PG1315
RIDA®GENE Viral Stool Panel II	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Rotavirus, Adenovirus and Astrovirus 40/41 in human stool samples	Stool	100	PG1325
<b>Enzyme immunoassay</b>				
RIDASCREEN® Astrovirus	Enzyme immunoassay for the detection of Astroviruses	Stool	96	C1301
<b>Reference control for RIDASCREEN® ELISA</b>				
RIDASCREEN® Astrovirus Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP1304



### Chikungunya Virus

<b>Enzyme immunoassays</b>				
RIDASCREEN® Chikungunya Virus IgG capture Chikungunya Virus IgM µ-capture	Specific detection of IgG or IgM antibodies against Chikungunya virus	Serum/ Plasma (citrate) Serum/ Plasma (citrate)	96 96	K8121 K8131



### Coronavirus

<b>Real-time RT-PCR</b>				
RIDA®GENE Coronavirus	Multiplex real-time RT-PCR for direct qualitative detection and differentiation of Coronavirus (HKU1, NL63, 229E, OC43) and MERS	Nasal swab/ throat swab/ naso-pharyngeal swab/ sputum/ BAL	100	PG6805



### Enterovirus

<b>Enterovirus Real-time RT-PCR</b>				
RIDA®GENE Enterovirus	Real-time RT-PCR for the direct qualitative detection of Enterovirus (Poliovirus, Echovirus, Coxsackievirus, human Enterovirus 70/71) in human stool samples	Stool/CSF	100	PG4705





## Virology

### Dengue Virus

Product	Description	Matrix	Tests	Art. No.
Enzyme immunoassays				
RIDASCREEN® Dengue Virus IgG Dengue Virus IgM	Specific detection of IgG or IgM antibodies against Dengue virus	Serum/ Plasma (citrate) Serum/ Plasma (citrate)	96 96	K8221 K8231



### Influenza

Real-time RT-PCR				
RIDA®GENE Flu	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Influenza A, Influenza B and H1N1v in human nasal swabs and throat swabs	Nasal swab/ throat swab	100	PG0505
RIDA®GENE Flu LC2.0	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Influenza A and Influenza B in human nasal swabs and throat swabs on the LightCycler® 2.0	Nasal swab/ throat swab	100	PG0525
RIDA®GENE Flu & RSV	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Influenza A, Influenza B and RSV from human swabs (nose, throat) and BAL	Nasal swab/ throat swab/BAL	100	PG0545



### Tick-borne Encephalitis

Enzyme immunoassays				
RIDASCREEN® FSME/TBE IgG FSME/TBE IgM	Specific detection of IgG or IgM antibodies against Tick-borne Encephalitis (TBE) virus	Serum Serum	96 96	K3421 K3431





## Virology

### Hantavirus

Product	Description	Matrix	Tests	Art. No.
Enzyme immunoassays				
RIDASCREEN® Hantavirus Dobrava/ Hantaan IgG	Specific detection of IgG or IgM antibodies against the Dobrava and Hantaan serotype of Hantavirus	96	Serum	K9121
Hantavirus Dobrava/ Hantaan IgM		96	Serum	K9131
RIDASCREEN® Hantavirus Puumala IgG	Specific detection of IgG or IgM antibodies against the Puumala serotype of Hantavirus	96	Serum	K9221
Hantavirus Puumala IgM		96	Serum	K9231



### Parainfluenza

Parainfluenza	Real-time RT-PCR			
RIDA®GENE Parainfluenza	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of human Parainfluenza 1, 3 and 2/4 from human swabs (nose, throat, nasopharyngeal)	Nasal swab/ throat swab/naso- pharyngeal swab	100	PG5805



### Measles

Masern	Enzyme immunoassays			
RIDASCREEN® Masern/Measles Virus IgG	Specific detection of IgG or IgM antibodies against Measles virus. IgG-analysis in international units (mIU/ml)	Serum	96	K5421
Masern/Measles Virus IgM		Serum	96	K5431



### Mumps

Mumps	Enzyme immunoassays			
RIDASCREEN® Mumps Virus IgG	Specific detection of IgG or IgM antibodies against Mumps virus	Serum	96	K5521
Mumps Virus IgM		Serum	96	K5531





## Virology

### Norovirus

Product	Description	Matrix	Tests	Art. No.
<b>Real-time PCR</b>				
RIDA®GENE Hospital Stool Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of Norovirus (genogroup I and II), Rotavirus and Clostridium difficile toxin genes A (tcdA) and B (tcdB) in human stool samples	Stool	100	PG0705
RIDA®GENE Norovirus	Real-time RT-PCR for the direct qualitative detection of Norovirus (genogroup I and II) in human stool samples	Stool	100	PG1405
RIDA®GENE Norovirus I & II	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Norovirus genogroup I and genogroup II in human stool samples	Stool	100	PG1415
RIDA®GENE Viral Stool Panel I	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Norovirus, Rotavirus, Adenovirus 40/41 and Astrovirus in human stool samples	Stool	100	PG1315
<b>Enzyme immunoassays</b>				
RIDASCREEN® Norovirus	Enzyme immunoassay for the detection of Noroviruses	Stool	96	C1401
RIDASCREEN® Norovirus	Enzyme immunoassay for the detection of Noroviruses	Stool	96	C1401US*
<b>Reference controls for RIDASCREEN® ELISA</b>				
RIDASCREEN® Norovirus Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP1404
<b>Rapid test</b>				
RIDA®QUICK Norovirus	Immunochromatographic Lateral flow rapid assay for the detection of Noroviruses Single pouched cassettes	Stool	25	N1402
RIDA®QUICK Rotavirus/Adenovirus/Norovirus Combi	Immunochromatographic rapid assay for the detection of Rotaviruses and/or Adenoviruses and/or Noroviruses Single pouched cassettes	Stool	20	N1903
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK Norovirus Positive Control	Positive control	–	1.8 ml	NP1404

\* Only for sale in the US.

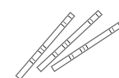




## Virology

### Parvovirus

Product	Description	Matrix	Tests	Art. No.
<b>Enzyme immunoassays</b>				
RIDASCREEN® Parvovirus B19 IgG Parvovirus B19 IgM	Specific detection of IgG or IgM antibodies against Parvovirus B19. Detection of antibodies against recombinant VP1 and VP2. Differentiation between acute and past infection with Parvovirus B19 IgG-analysis in international units (IU/ml)	Serum Serum	96 96	K6021 K6031
<b>Line blots</b>				
RIDA® LINE Parvovirus B19 IgG Parvovirus B19 IgM	Line blots for specific detection of IgG or IgM antibodies against Parvovirus B19 with recombinant antigens. Line blots allow differentiation between acute and past infection with Parvovirus B19. Indicative for a probably persistent Parvovirus B19 infection	Serum Serum	20 20	LB6023 LB6033
<b>Accessory</b>				
RIDA® Aviditätsreagenz	Reagent for avidity testing in Line blots	Serum	25	LB0023





## Virology

### Rotavirus

Product	Description	Matrix	Tests	Art. No.
<b>Real-time PCR</b>				
RIDA®GENE Hospital Stool Panel	Real-time multiplex PCR for the direct qualitative detection and differentiation of Norovirus (genogroup I and II), Rotavirus and Clostridium difficile toxin genes A (tcdA) and B (tcdB) in human stool samples	Stool	100	PG0705
RIDA®GENE Viral Stool Panel I	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Norovirus, Rotavirus, Adenovirus 40/41 and Astrovirus in human stool samples	Stool	100	PG1315
RIDA®GENE Viral Stool Panel II	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Rotavirus, Adenovirus 40/41 and Astrovirus in human stool samples	Stool	100	PG1325
<b>Enzyme immunoassay</b>				
RIDASCREEN® Rotavirus	Enzyme immunoassay for the detection of Rotaviruses	Stool	96	C0901
<b>Reference control for RIDASCREEN® ELISA</b>				
RIDASCREEN® Rotavirus Reference Control	Reference controls A and B	–	2.0 ml (A) 2.0 ml (B)	CRP0904
<b>Rapid tests</b>				
RIDA®QUICK Rotavirus	Immunochromatographic rapid assay for the detection of Rotaviruses Box with strips	Stool	25	N0902
RIDA®QUICK Rotavirus	Single pouched cassettes	Stool	20	N0903
RIDA®QUICK Rotavirus/Adenovirus Combi	Immunochromatographic rapid assay for the detection of Rotaviruses and/or Adenoviruses Box with strips	Stool	25	N1002
RIDA®QUICK Rotavirus/Adenovirus Combi	Single pouched cassettes	Stool	20	N1003
RIDA®QUICK Rotavirus/Adenovirus/Norovirus Combi	Immunochromatographic rapid assay for the detection of Rotaviruses and/or Adenoviruses and/or Noroviruses Single pouched cassettes	Stool	20	N1903
<b>Control for RIDA®QUICK</b>				
RIDA®QUICK Rotavirus/Adenovirus Combi Control	Positive control	–	1.8 ml	NP1904
<b>Sample diluent for RIDA®QUICK</b>				
Rotavirus/Adenovirus Sample diluent	Tubes with 1.5 ml sample diluent	Stool	25	ZN1004





## Virology

### Respiratory Syncytial Virus & Human Metapneumovirus

Product	Description	Matrix	Tests	Art. No.
<b>RSV &amp; hMPV</b>				
<b>Real-time RT-PCR</b>				
RIDA®GENE RSV & hMPV	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of RSV and hMPV from human swabs (nose, throat, nasopharyngeal), throat washes and BAL	Nasal swab/ throat swab/naso- pharyngeal swab/throat washes/BAL	100	PG5905
RIDA®GENE Flu & RSV	Real-time multiplex RT-PCR for the direct qualitative detection and differentiation of Influenza A, Influenza B and RSV from human swabs (nose, throat) and BAL	Nasal swab/ throat swab/BAL	100	PG0545



### Sapovirus

<b>Sapovirus</b>				
<b>Real-time RT-PCR</b>				
RIDA®GENE Sapovirus	Real-time RT-PCR for the direct qualitative detection of Sapovirus in human stool samples	Stool	100	PG1605



### Zika Virus

<b>Zika Virus</b>				
<b>Enzyme immunoassays</b>				
RIDASCREEN® Zika Virus IgG µ-capture Zika Virus IgM µ-capture	Specific detection of IgG or IgM antibodies against Zika virus	Serum/ Plasma (citrate) Serum/ Plasma (citrate)	96 96	K8421 K8431







## Virology

### Accessories

Product	Description	Matrix	Tests	Art. No.
<b>Accessories</b>				
<b>Color compensation</b>				
RIDA®GENE Color Compensation Kit I	To generate a Color Compensation File for 3- and 4-plex RIDA®GENE real-time PCR experiments on the LightCycler®480II	–	3	PG0001
RIDA®GENE Color Compensation Kit II	To generate a Color Compensation File for RIDA®GENE real-time PCR experiments on the LightCycler® 1.5/2.0	–	3	PG0002
RIDA®GENE Color Compensation Kit IV	To generate a Color Compensation File for 5-plex RIDA®GENE real-time PCR experiments on the LightCycler® 480II	–	3	PG0004
<b>Accessory</b>				
<b>DNA/RNA extraction</b>				
RIDA® Xtract	Spin-filter based extraction kit for the simultaneous isolation and purification of DNA and RNA in various matrices (serum/ plasma/ cerebral fluid/ cell culture supernatant/ other cell free body fluids (e.g. urine)/ swabs/tissue biopsies/stool)	see description	250 preparations	PGZ001
<b>Accessory for RIDASCREEN® antibody detection tests</b>				
RIDA® RF-Absorbens	Anti-human IgG for absorption of rheumatoid factors (RF) and IgG antibodies in human serum or plasma	Serum/ plasma	100	Z0202





# Systems

## **R-Biopharm AG offers a wide and flexible range of automation and software solutions for individual laboratory needs.**

Due to time and cost reasons, automation plays an increasingly important role in clinical laboratories. Each diagnostic has specific needs and demands that must be adapted to the laboratory's requirements. This is where R-Biopharm AG comes in with its solutions for automation. In cooperation with renowned partners, we offer equipment and software solutions from small to high sample throughput for the different laboratory requirements.

### **Instruments**

R-Biopharm offers different platforms for ELISA, PCR and rapid tests.

The lateral flow reader RIDA®QUICK SCAN II offers additional security for the analysis and documentation of your rapid tests.

For molecular diagnostics, we offer our own liquid handling system Aila® as well as the RIDA®CYCLER. Aila® provides a fast and safe automated PCR set-up solution for the daily laboratory routine.

All R-Biopharm ELISA tests are validated on various automation solutions.

### **Software & services**

We provide convenient software solutions for measurement, evaluation and documentation of different test formats including RIDA®GENE, RIDA qLine® and RIDASCREEN® ELISA tests. Our application specialists continuously improve, update and validate our systems and devices. Moreover, our goals are to accompany you as a reliable partner during the process of planning, installation and also later in your daily routine.

## Systems

### Molecular diagnostics

Product	Description	Units		Art. No.
RIDA®CYCLER <b>Coming soon!</b>	qPCR thermocycler 4 channels, incl. 1 box with reaction tubes	1	–	ZRCYCLER
Aila®	PCR set-up system	1	–	ZAILA

### Immunoassay systems and evaluation software

ELISA-systems				
Stratex GEMINI	Fully automated 2-microtiter plate analyzer with 2 incubators	1	–	ZGEMINI
Dynex DS2	Fully automated 2-microtiter plate analyzer with 2 incubators	1	–	Z62000
Dynex DSX	Fully automated 4-microtiter plate analyzer with 2/4 incubators	1	–	Z65200 Z65400
Dynex Agility	Fully automated 12-microtiter plate analyzer with 12 incubators	1	–	ZAGILITY
ELISA washer, reader and evaluation software				
RIDA®ABSORBANCE 96 <b>Coming soon!</b>	Microtiterplate Reader	1	–	ZRA96
BioTek® 50™ TS 8V	Microtiterplate Washer	1	–	Z50TS8V
BioTek® 800™ TS	Microtiterplate Reader	1	–	Z800TS
RIDASOFT® Win.NET	Software for measurement, evaluation and documentation of RIDASCREEN® ELISA tests	1	–	Z9996
RIDASOFT® A.M.Sys	Software for the input, measurement, evaluation and documentation of the RIDASCREEN® Allergy ELISA Tests	1	–	Z9997

### Rapid tests

RIDA®QUICK SCAN II - IVD SET	Lateral flow reader (CE-IVD) and 2D barcode scanner	1	–	ZRQS2-KD-SET
RIDA®QUICK SCAN II	Lateral flow reader (CE-IVD)	1	–	ZRQS2-KD



## Systems

### Blot systems and evaluation software

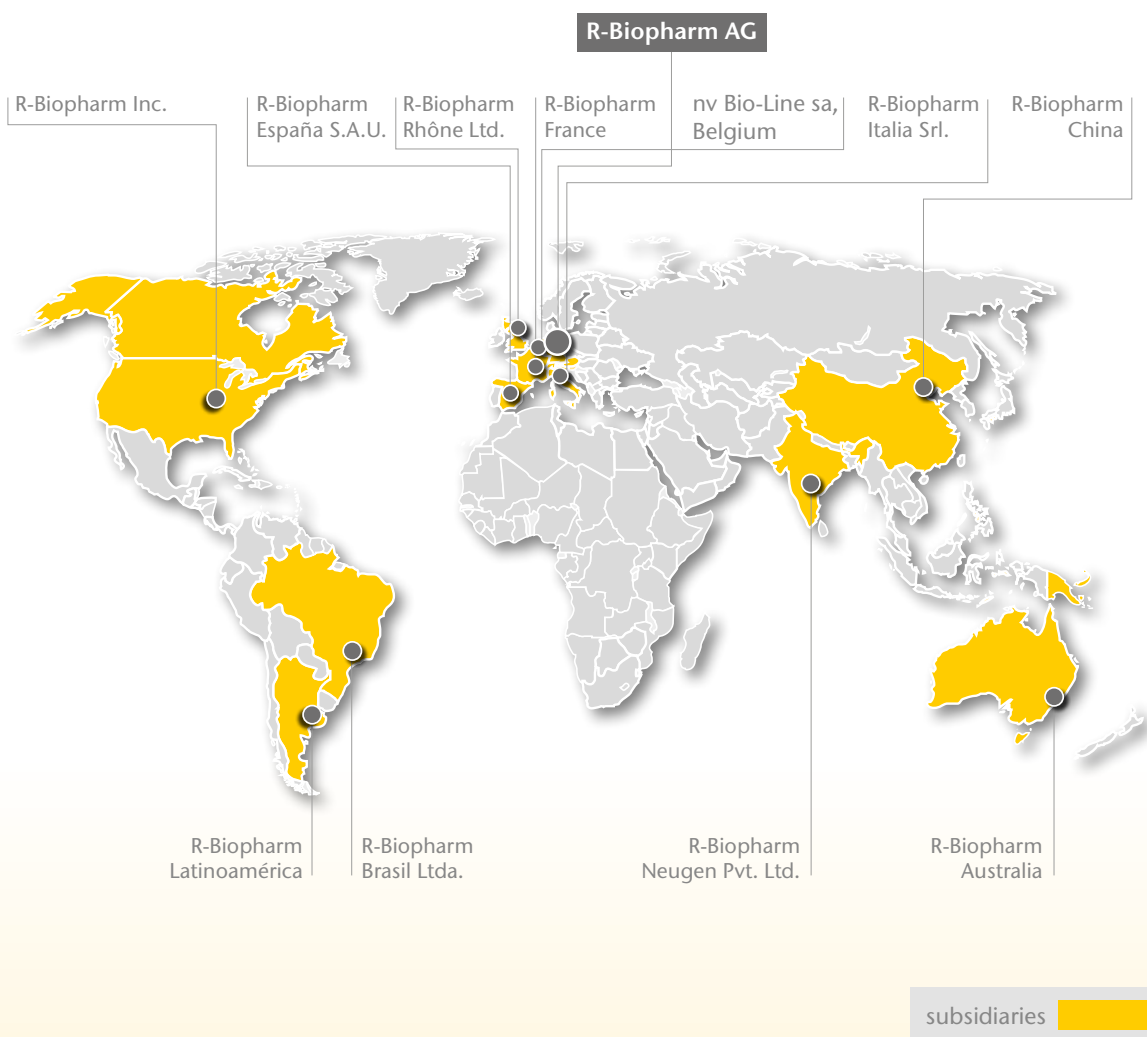
Product	Description	Units		Art. No.
RIDA qLine® autoBlot	Fully automated analyzer for 36 RIDA qLine® Allergy test strips	1	–	ZG3101
RIDA qLine® Orbital Shaker	Orbital shaker (100 - 240V)	1	–	ZG2601
RIDA qLine® Scan	Reader for RIDA qLine® Allergy (CE-IVD)	1	–	ZG1109
RIDA qLine® QC-Kit	10 test strips for function control of the evaluation unit	1	–	ZG1108
RIDA qLine® SOFT	Software for measurement, evaluation and documentation of RIDA qLine® test strips	1	–	Z9995

### Microspot array diagnostics

<i>SpotSight</i> ® strip	Scanner for image acquisition and interpretation (strip)	1	–	Z-SP-STRIP-B
<i>SpotSight</i> ® plate mono	Scanner for image acquisition and interpretation (plate)	1	–	Z-SP-PLATE-C



# The R-Biopharm Group – contact us



## R-Biopharm AG

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# General terms & conditions of R-Biopharm AG

(Date of Issue: October 2010)

## I. General Provisions

These General Terms & Conditions only are valid for entrepreneurs, legal entities under public law or public-law special assets (legal entities according to § 310 I German Civil Code ("Bürgerliches Gesetzbuch" - "BGB"). We deliver according to these General Terms & Conditions exclusively. They are deemed to have been acknowledged with the placing of an order or the receipt of the goods and shall also apply to all future business relationships, even if they are not explicitly agreed upon again. Deviating Terms and Conditions are not binding for us, even if we do not object to them explicitly.

## II. Orders and Offer Documents

Our offers are subject to alteration. Decisive for the scope of our delivery obligation are our offer in writing respectively our written order confirmation. Deliverable are only the products which are contained in our current applicable price lists.

## III. Prices and Conditions of Payment/Withdrawal in case of default

1. Purchase price is the price stated by us or - if no price has been stated - the price which is contained in our price list, which is in effect on the day of the order. The prices stated by us - unless otherwise stipulated in writing - are including packing and shipping costs, excluding VAT. The deduction of cash discounts shall not be granted. A small-quantity surcharge in the amount of 10 Euros can be charged for deliveries with a product value of up to 300 Euros (small quantity).
2. Payment obligations resulting from the delivery of goods are to be fulfilled within thirty (30) days of the invoice date by bank transfer exclusively and shall be deemed to have been effected only to the extent, to which we can dispose of them freely at a bank. For checks and bills of exchange, a processing fee of 30 Euros shall be charged; discounting and expenses shall be for the account of the Buyer.
3. The Buyer shall only be entitled to set-off with a counter-claim which is undisputed or has been determined by a final verdict. A right of retention the Buyer does only have as far as it is resulting from the same contractual relationship.
4. Should the Buyer be in default with due payments entirely or partly, the regulations of the statutory law are applicable. Interest in the amount of 8% above the basic interest rate (as it is published by the German Federal Bank) shall be due. We are reserving the right to claim any exceeding damage for delay.
5. In case of withdrawal, we are entitled - at the expense of the Buyer - to let the goods, which have been delivered by us, mark, store separately and collect. The Buyer - already yet - is declaring his consent that the persons who are commissioned with the collection are entitled to access the premises, on which the goods are, and enter them by car for this purpose.
6. In case of our withdrawal, we are not obliged to further deliveries any more, also regarding further future deliveries.

## IV. Retention of Title

1. We shall retain title to the goods delivered by us, until all the claims, to which we are entitled on whatever legal grounds arising from our business relationship with the Buyer, have been fully satisfied. Upon the Buyer's request, we shall be obligated to release the securities in so far as their realizable value exceeds our claims by more than 10%. We reserve the right to select the items of collateral to be released.
2. The Buyer undertakes to only sell the goods, which are subject to retention, in his ordinary course of business, according to his usual terms and conditions of business and only as long as he is not in default with his payments. He is entitled to resell the goods, which are subject to retention, only on the condition that a transfer of the receivables, resulting from such a resale, to us takes place. He is not be entitled to dispose of the goods, which are subject to retention, in any other way (such as e. g. collateral assignment, pledging, leasing, lending, etc.). The Buyer is obligated to immediately notify us of any seizure or other interference by a third party, together with handing over of the documents which are necessary for an intervention.

## V. Delivery

1. Our delivery times are generally only approximate and not binding.
2. Uncontrollable incidents, for which we are not responsible, e. g. natural phenomena, war, orders of the authorities, embargo, unexpected delays in the delivery of essential components and other materials ("Force Majeure"), shall prolong the delivery time reasonably. This also applies, if these incidents occur during a delay in delivery or at a sub-supplier. However, the delivery time shall be prolonged by a maximum period of two (2) months. Should we also not be able to deliver after this time, then the Buyer as well as we ourselves are entitled to withdraw from the contract. Any claims of damages of the Buyer for this reason are excluded. Should we withdraw from the contract, we shall immediately refund the Buyer any and all payments possibly rendered for not yet delivered goods.
3. Should the Buyer - despite reminder - not fulfill his payment obligations resulting from existing contracts, we shall only supply on advance payment from then on.
4. We are entitled to partial deliveries to a reasonable extent; here each partial delivery can be invoiced separately. In case of order on call, the call-off has to take place at least two (2) calendar weeks prior to the desired delivery date.

## VI. Shipment and Passing of Risk

1. Dispatch ex works or distribution warehouse shall be carried out at the expense of the Buyer. Shipping route and mode of dispatch shall be determined by us. We shall only be obligated to obtain a transport insurance, if explicitly instructed to do so by the Buyer in writing; the Buyer shall bear the costs for this insurance.

2. The passing of risk to the Buyer takes place as soon as the goods have been handed over to the haulage contractor respectively leave our factory or distribution warehouse for the purpose of dispatch; this also is valid, if we - by way of exception - organize additional services, e. g. carriage prepaid shipping, delivery to the premises of the Buyer, or similar. In particular we are not liable for alteration or deterioration of the goods during transport or resulting from improper storage. Should we have notified the Buyer that the goods are ready for dispatch or collection, the risk passes on to the Buyer, if he does not have the goods delivered or collect them, despite of us having set him a reasonable period of time for doing so; regarding that, the passing of risk takes place at the beginning of the day which follows the day, on which the deadline has expired.

## VII. Warranty/Liability

1. It is precondition for the execution of claims based on a defect, that the Buyer has performed his responsibilities to examine and complain according to § 377 of the German Commercial Code ("Handelsgesetzbuch" - "HGB") correctly and completely.
2. We are liable for faultlessness of the goods corresponding to the state of the art. Features of samples and specimens as well as any statements regarding the condition of the goods, shall only be considered as an agreement on quality, if they explicitly have been agreed upon as determining the condition of the goods. Otherwise they are non-binding and do not free the Buyer from an own inspection of the goods concerning their suitability for his purposes. We neither grant guarantees with the content of a liability without fault nor any other kind of guarantees for quality and durability in the legal sense.
3. We are not liable for damages as far as they have been caused by improper storage of our products and/or their application contrary to the prescriptions - e. g. application after expiry of their shelf life or contrary to the direction for use - or as far as they have been caused by the Buyer in any other way.
4. The exceeding of use-by dates after the delivery does not entitle the Buyer to claims of any kind, but is deemed to be the usual condition. This is not the case, if the period between the date of delivery and the use-by date is less than four (4) calendar weeks.
5. We shall only be liable for damages, as far as we attributable have caused them by intent or gross negligence (disregard for the due care and attention to a very coarse extent); except in case of violation of essential contractual obligations (obligations, whose fulfillment enables the proper execution of the contract at all and on whose observance the contractual partner may rely regularly). In this last-mentioned case we are liable for each negligence with the restriction that - in case of violation of essential contractual duties by slight negligence - our liability is limited to the damage which typically is predictable.
6. Should we not have violated any essential contractual obligations in the sense mentioned before, we are not liable in cases of slight negligence. Unaffected by any limitation of liability contained in these General Terms & Conditions stay: Liability for intent, malice, initial inability, gross negligence, liability resulting from a guarantee (which, however, we generally not grant), bodily harms and other cases of legally compelling liability - in these cases the statutory law is valid (under exclusion of the Terms and Conditions of our contractual partner).
7. The regulations of this clause Warranty/Liability are valid for our contractual liability as well as liability resulting from tort (unaffected thereby stays the action for possession in case of tort, after statutory limitation has taken place, § 852 German Civil Code ("Bürgerliches Gesetzbuch" - "BGB")).
8. As far as our liability is excluded or limited, this shall also apply to the personal liability of our representatives, employees and vicarious agents and our liability for them.
9. As far as there is a defect of the goods, for which we are liable, the Buyer has to grant us the opportunity to execute subsequent performance within a term of generally two (2) calendar weeks, before the assertion of his further rights. In case that subsequent performance fails twice, in case of our refusal, or if subsequent performance is impossible, is delayed unreasonably or unreasonable for the Buyer due to other reasons, the Buyer may - according to his choice - execute his further legal rights, namely rescission or reduction of the purchase price and (regarding defects for which we are liable) claim of possibly occurred damages or compensation for possible futile expenditure, by which our liability is limited according to the preceding regulations.

## VIII. Burden of Proof/Export/Effectiveness

1. With none of the stipulations of these General Terms & Conditions an alteration of the burden of proof is intended.
2. We are not liable for the correctness of information regarding foreign-trade which we provide to our best conscience; it is the Buyer's responsibility to assess the compliance with foreign-trade regulations with regard to our products himself.
3. Should any of the regulations of our General Terms & Conditions be ineffective and/or incomplete, the validity of the other regulations shall remain unaffected thereby.

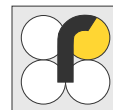
## IX. Applicable Law and Place of Jurisdiction

1. The contractual relationship shall be governed by the laws of the Federal Republic of Germany, which shall be applicable supplementary. The UN-convention on contracts regarding the International Sale of Goods (CISG) shall not apply.
2. Exclusive Place of Jurisdiction is Darmstadt (Germany). However, we are entitled to file a lawsuit against the Buyer also at any other court, which does have jurisdiction regarding him according to the general regulations.









## R-Biopharm AG

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