r-biopharm®

# Product catalogue 2021

## Clinical Diagnostics


clinical.r-biopharm.com

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## Clinical Diagnostics

# Content

# 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

### 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®

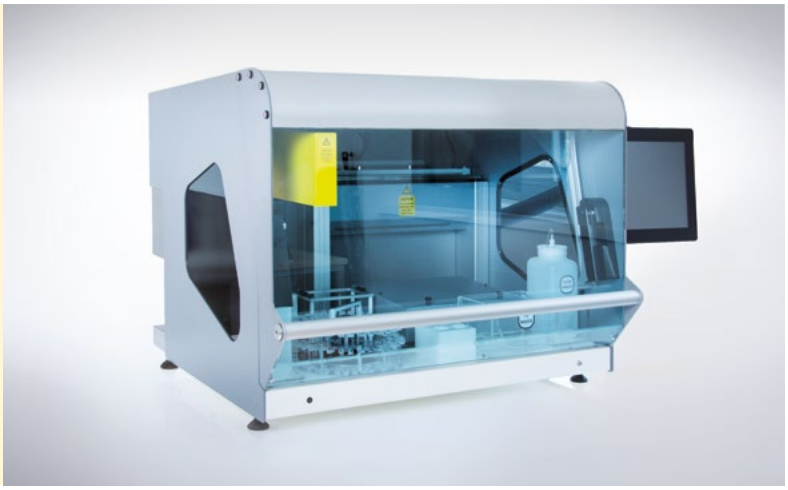
- Microspot array for antibody detection in autoimmune or infectious diseases
- For high throupghput on common ELISA processors
- Ready-to-use reagents and universal test protocol
- Built-in controls and reference curve
- Cost and time efficient multiplex diagnostics


## RIDA qLine®

- Quantitative immunoblot for antibody detection (IgE) in serum
- Various allergen 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

## The spread of allergies in developed countries is steadily increasing.

Nowadays an allergy is called a specific hypersensitivity of the immune system against substances that are actually harmless. Type V has now been added to the four allergy types (types I - IV) originally classified by Coombs and Gell.

**Type I allergy**
The most frequent allergic reactions are type I reactions, which take place primarily on epithelial surfaces (skin, lungs, gastrointestinal tract) and are characterized by the formation of specific immunoglobulin E against the allergens. These type I reaction is the cause of allergic rhinitis, asthma, atopic dermatitis, etc.. 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 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. Type III reactions lead by the formation of IgG antibodies immune complexes with the allergens leading for example to the clinical picture of exogenous allergic alveolitis. 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. Granulomatous type V allergy can be considered a variant of type IV allergy, as it also triggers a cell-mediated immune response, but involves macrophages instead of T-lymphocytes.

Immunoblot Accessories

**Allergy diagnostics**

As a rule, the allergens are proteins from natural sources such as pollens, animal epithelia, insect venoms, foodstuffs, mites etc., but also 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 the blood of a patient when suspected of having an allergic reaction on specific IgE antibodies by using the single allergen system RIDASCREEN® Allergy ELISA or the lineblot RIDA qLine® Allergy.

## Allergology

### Immunoblots

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Immunoblots for antibody detection** | | | |
| RIDA qLine®Allergy Panel 1 | Immunoblot for quantitative determination of specific IgE in human serum or plasma (citrate)<br>• Standard curve on each strip<br>• 13 inhalative and 7 food allergens<br>• Test membranes (nitrocellulose) in reaction troughs | Serum/ plasma (citrate) | 10 | A6142 |
| RIDA qLine®Allergy Panel 2 | Immunoblot for quantitative determination of specific IgE in human serum or plasma (citrate)<br>• Standard curve on each strip<br>• 20 inhalative allegens<br>• Test membranes (nitrocellulose) in reaction troughs | Serum/ plasma (citrate) | 10 | A6242 |
| RIDA qLine®Allergy Panel 3 | Immunoblot for quantitative determination of specific IgE in human serum or plasma (citrate)<br>• Standard curve on each strip<br>• 20 Food allegens<br>• Test membranes (nitrocellulose) in reaction troughs | Serum/ plasma (citrate) | 10 | A6342 |
| RIDA qLine®Allergy Panel 4 | Immunoblot for quantitative determination of specific IgE in human serum or plasma (citrate)<br>• Standard curve on each strip<br>• 20 Allergens Pediatric panel<br>• Test membranes (nitrocellulose) in reaction troughs | Serum/ plasma (citrate) | 10 | A6442 |
| | **Accessory** | | | |
| 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.

# Autoimmunity

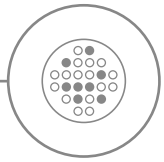
## *SeraSpot*® – an innovative multiplex diagnostic of autoimmune disease.

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.

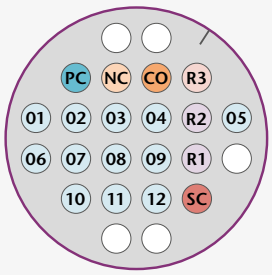
**Diagnostics of autoimmune diseases**

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.



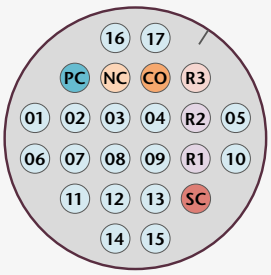
Microspot array

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



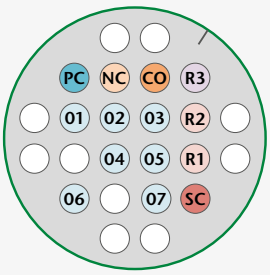

01 U1 - snRNP
02 CENP - B
03 Nucleosomes
04 Histones
05 dsDNA
06 Jo - 1
07 Scl - 70
08 Sm
09 P0
10 La/SS - B
11 Ro/SS - A 52
12 Ro/SS - A 60

ANA-12 IgG



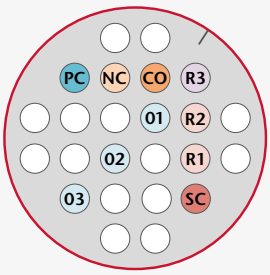

01 U1 - snRNP
02 CENP - B
03 Nucleosomes
04 Histones
05 dsDNA
06 Jo - 1
07 Scl - 70
08 Sm
09 P0
10 PCNA
11 La/SS - B
12 Ro/SS - A 52
13 Ro /SS - A 60
14 AMA - M2
15 PM/Scl - 100
16 Mi - 2
17 Ku

ANA-17 IgG




01 LKM1
02 AMA - M2
03 LC1
04 SLA
05 SP100
06 F - Actin
07 gp210

HepAk-7 IgG




01 GBM
02 MPO
03 PR3

Vasculitis-3 IgG

## Autoimmunity

### Autoimmune diseases

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

# Bacteriology

## Bacterial infections still play a significant role around the world.

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 is 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.

ELISA | Rapid tests | Real-time PCR | Immuno-fluorescence assay | Accessories | Microspot array

# Bacteriology

## *Bordetella* spp.

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE Bordetella | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Bordetella pertussis*, *Bordetella parapertussis* and *Bordetella holmesii* DNA in untreated human nasopharyngeal swabs | Nasopha-ryngeal swabs | 100 | PG2505 |

## *Borrelia* spp.

| | | | | |
|---|---|---|---|---|
| | **Microspot arrays** | | | |
| *SeraSpot*® Anti-Borrelia-10 IgG | Specific detection of IgG antibodies against *Borrelia burgdorferi sensu lato* | Serum/ plasma | 1 x 96<br>10 x 96 | SP-006-10 G-S12<br>SP-006-10 G-S120 |
| *SeraSpot*® Anti-Borrelia-10 IgM | Specific detection of IgM antibodies against *Borrelia burgdorferi sensu lato* | Serum/ plasma | 1 x 96<br>10 x 96 | SP-006-10 M-S12<br>SP-006-10 M-S120 |

## *Campylobacter* spp.

| | | | | |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE Bacterial Stool Panel | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Salmonella* spp., *Campylobacter* spp. and *Yersinia enterocolitica* DNA in untreated human stool samples | Stool | 100 | PG2405 |
| RIDA®GENE Bacterial Stool Panel I | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Salmonella* spp., *Campylobacter* spp., EIEC/*Shigella* spp. and STEC DNA in untreated human stool samples | Stool | 100 | PG2415 |
| | **Enzyme immunoassay** | | | |
| RIDASCREEN® Campylobacter | Enzyme immunoassay for the detection of *Campylobacter jejuni* and *Campylobacter coli* in human stool samples | Stool | 96 | C2401 |
| | **Reference controls for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Campylobacter Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A)<br>2.0 mL (B) | CRP2404 |
| | **Rapid test** | | | |
| RIDA®QUICK Campylobacter | Immunochromatographic lateral flow rapid assay for the detection of *Campylobacter jejuni* und *Campylobacter coli* in human stool samples<br>Single pouched cassettes | Stool | 25 | N2403 |
| | **Controls for RIDA®QUICK** | | | |
| RIDA®QUICK Campylobacter Control | Positive control | – | 1.8 mL | NP2404 |

# Bacteriology

## *Chlamydophila pneumoniae*

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE CAP Bac | Multiplex real-time PCR for the direct qualitative detection of *Chlamydophila pneumoniae*, *Legionella pneumophila* and *Mycoplasma pneumoniae* DNA in untreated human bronchoalveolar lavage (BAL) | BAL | 100 | PG2705 |

## *Clostridium difficile*

| | | | | |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE CD Toxin A/B | Multiplex real-time PCR for the direct qualitative detection of *Clostridium difficile* toxin genes A (tcdA) and B (tcdB) in untreated human stool and culture samples | Stool/ cultures | 100 | PG0825 |
| RIDA®GENE Clostridium difficile | Multiplex real-time PCR for the direct qualitative detection of *Clostridium difficile* DNA and *Clostridium difficile* toxin genes A (tcdA) and B (tcdB) in untreated human stool and culture samples | Stool/ cultures | 100 | PG0835 |
| RIDA®GENE Hospital Stool Panel | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Norovirus RNA (genogroup I and II), Rotavirus RNA and *Clostridium difficile* toxin genes A (tcdA) and B (tcdB) in human stool samples | Stool | 100 | PG0705 |
| | **Enzyme immunoassays** | | | |
| RIDASCREEN® Clostridium difficile GDH | Enzyme immunoassay for the detection of glutamate dehydrogenase of *Clostridium difficile* in human stool samples | Stool | 96 | C0701 |
| RIDASCREEN® Clostridium difficile Toxin A/B | Enzyme immunoassay for the detection of toxin A and B of *Clostridium difficile* | Stool | 96 | C0801 |
| | **Reference controls for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Clostridium difficile GDH Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A) 2.0 mL (B) | CRP0704 |
| RIDASCREEN® Clostridium difficile Toxin A/B Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A) 2.0 mL (B) | CRP0804 |

## *Clostridium difficile*

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Rapid tests** | | | |
| RIDA®QUICK Clostridium difficile GDH | Immunochromatographic lateral flow rapid assay for the detection of *Clostridium difficile* GDH Single pouched cassettes | Stool | 25 | N0703 |
| RIDA®QUICK Clostridium difficile Toxin A/B | Immunochromatographic lateral flow rapid assay for the detection of Toxins A and B of *C. difficile* Single pouched cassettes | Stool | 25 | N0803 |
| | **Controls for RIDA®QUICK** | | | |
| RIDASCREEN® Clostridium difficile GDH Control | Positive control | – | 1.8 mL | NP0704 |
| RIDA®QUICK Clostridium difficile Toxin A/B Control | Positive control | – | 1.8 mL | NP0804 |

## *Clostridium perfringens*

| | | | | |
|---|---|---|---|---|
| | **Enzyme immunoassay** | | | |
| RIDASCREEN® Clostridium perfringens Enterotoxin | Enzyme immunoassay for detection of enterotoxin of *Clostridium perfringens* in human stool samples | Stool | 96 | C0601 |
| | **Reference controls for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Clostridium perfringens Enterotoxin Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A)<br>2.0 mL (B) | CRP0604 |

# Bacteriology

## *Escherichia coli*

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE EHEC/EPEC | Multiplex real-time PCR for the direct qualitative detection of DNA for virulence factors of EHEC, STEC, EPEC, and EIEC/*Shigella* spp. in untreated human stool and culture samples | Stool/ cultures | 100 | PG2205 |
| RIDA®GENE EAEC | Multiplex real-time PCR for the direct qualitative detection of enteroaggregative *E. coli* (EAEC) DNA in untreated human stool and culture samples | Stool/ cultures | 100 | PG2215 |
| RIDA®GENE ETEC/EIEC | Multiplex real-time PCR for the direct qualitative detection of DNA for virulence factors of ETEC and EIEC/Shigella spp. in untreated human stool samples and culture samples | Stool/ cultures | 100 | PG2225 |
| RIDA®GENE E. coli Stool Panel I | Multiplex real-time PCR for the direct qualitative detection of DNA for virulence factors of EHEC, STEC, and EPEC in untreated human stool samples | Stool | 100 | PG2285 |
| RIDA®GENE Bacterial Stool Panel I | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Salmonella* spp., *Campylobacter* spp., EIEC/ *Shigella* spp. and STEC DNA in untreated human stool samples | Stool | 100 | PG2415 |
| | **Enzyme immunoassay** | | | |
| RIDASCREEN® Verotoxin | Enzyme immunoassay for the detection of verotoxins 1 and 2 (shigatoxins 1 and 2) of *Escherichia coli* in a stool enrichment | mTSB-Bouillon | 96 | C2201 |
| | **Reference controls for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Verotoxin Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A) 2.0 mL (B) | CRP2204 |
| | **Rapid test** | | | |
| RIDA®QUICK Verotoxin/O157 Combi | Immunochromatographic rapid assay for the detection of verotoxins and/or *E. coli* O157 in a stool enrichment Single pouched cassettes | mTSB-Buillon | 20 | N2203 |
| | **Controls for RIDA®QUICK** | | | |
| RIDA®QUICK Verotoxin/O157 Combi Control | Positive control | – | 1.8 mL | NP2204 |
| **Enrichment broth** | **Accessory** | | | |
| RIDA® Enrichment broth | mTSB-buillon with Mitomycin C for the enrichment of verotoxin (shigatoxin)-producing *E. coli* bacteria | – | 100 | Z1000 |
| RIDA® Enrichment broth | mTSB-buillon with Mitomycin C for the enrichment of verotoxin (shigatoxin)-producing *E. coli* bacteria | – | 25 | Z1003 |

## *Helicobacter pylori*

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

# Bacteriology

## *Legionella* spp.

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE Legionella | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Legionella* spp. and *Legionella pneumophila* DNA in human sputum, BAL and tracheal secretion | Sputum/ BAL/tracheal secretion | 100 | PG8005 |
| RIDA®GENE CAP Bac | Multiplex real-time PCR for the direct qualitative detection of *Chlamydophila pneumoniae*, *Legionella pneumophila* and *Mycoplasma pneumoniae* DNA in untreated human bronchoalveolar lavage (BAL) | BAL | 100 | PG2705 |
| | **Enzyme immunoassay** | | | |
| RIDASCREEN® Legionella | Enzyme immunoassay for the detection of *Legionella pneumophila* in human urine samples | Urine | 96 | C8001 |
| | **Reference controls for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Legionella Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A)<br>2.0 mL (B) | CRP8004 |
| | **Immunoflourescence assay** | | | |
| RIDA® FLUOR Legionella IgG (3 Pools) | Row 1: SG 1 - 6<br>Row 2: SG 7 - 14<br>Row 3: L. boz-dum-gor-jord-longb-mic<br>Immunofluorescence assay for detection of IgG antibodies against *Legionella pneumophila* serogroup 1 - 14 and six non-pneumophila species of *Legionella* | Serum | 10 x 30 | I8521 |

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

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE MRSA | Multiplex real-time PCR for the direct qualitative detection of methicillin-resistant *Staphylococcus aureus* (MRSA) and methicillin-susceptible *Staphylococcus aureus* (MSSA) DNA in untreated human nasal/throat swabs, wound swabs and culture | Swab specimens (nasal/ throat, wound,)/ cultures | 100 | PG0605 |
| RIDA®GENE PVL | Multiplex real-time PCR for the direct qualitative detection of the PVL-gene (Panton-Valentine leukocidine) in culture samples | Cultures | 100 | PG0645 |

## *Mycoplasma* spp.

| | **Real-time PCR** | | | |
|---|---|---|---|---|
| RIDA®GENE STI Mycoplasma Panel | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Mycoplasma hominis, Mycoplasma genitalium* and *Ureaplasma urealyticum/parvum* DNA in human genital swabs and urine | Genital swab/urine | 100 | PG4945 |
| RIDA®GENE Mycoplasma pneumoniae | Multiplex real-time PCR for the direct qualitative detection of *Mycoplasma pneumoniae* DNA in human sputum, BAL and tracheal secretion | Sputum/ BAL/tracheal secretion | 100 | PG4305 |
| RIDA®GENE CAP Bac | Multiplex real-time PCR for the direct qualitative detection of *Chlamydophila pneumoniae*, *Legionella pneumophila* and *Mycoplasma pneumoniae* DNA in untreated human bronchoalveolar lavage (BAL) | BAL | 100 | PG2705 |

## *Salmonella* spp.

| | **Real-time PCR** | | | |
|---|---|---|---|---|
| RIDA®GENE Bacterial Stool Panel | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Salmonella* spp., *Campylobacter* spp. and *Yersinia enterocolitica* DNA in untreated human stool samples | Stool | 100 | PG2405 |
| RIDA®GENE Bacterial Stool Panel I | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Salmonella* spp., *Campylobacter* spp., EIEC/*Shigella* spp. and STEC DNA in untreated human stool samples | Stool | 100 | PG2415 |

# Bacteriology

## *Treponema pallidum*

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

## *Yersinia enterocolitica*

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

## Various

| | | | | |
|---|---|---|---|---|
| ***Akkermansia muciniphila*** | **Real-time PCR** | | | |
| RIDA®GENE Akkermansia muciniphila | Multiplex real-time PCR for the direct qualitative or quantitative detection of *Akkermansia muciniphila* DNA in human stool samples | Stool | 100 | PG0145 |
| ***Faecalibacterium prausnitzii*** | **Real-time PCR** | | | |
| RIDA®GENE Faecalibacterium prausnitzii | Multiplex real-time PCR for the direct qualitative or quantitative detection of *Faecalibacterium prausnitzii* DNA in human stool samples | Stool | 100 | PG0155 |
| **Bacteroides/Clostridium Cluster XIVa – Real-time PCR** | | | | |
| RIDA®GENE Gut Balance | Multiplex real-time PCR for the direct qualitative or quantitative detection and differentiation of *Bacteroides* and *Clostridium* Cluster XIVa DNA in human stool samples | Stool | 100 | PG0105 |

## Accessories

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Color compensation** | | | |
| 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 |
| | **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 pre-parations | PGZ001 |

* For RIDAGENE products of the generation 1.0.
** For RIDAGENE products of the generation 2.0.

# Gastroenterology

## Modern diagnostics for the detection of diseases of the digestive tract and for therapeutic drug monitoring.

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.
- **α1-antitrypsin** and sIgA indicate the integrity of the gut wall. This is relevant for monitoring and diagnosing a leaky gut syndrome.
- **Pancreatic elastase** is used for the detection of pancreatic insufficiency.
- **Therapeutic drug monitoring**
  Therapeutic drug monitoring of infliximab (IFX), adalimumab (ADM), vedolizumab (VDZ) and golimumab (GLM) and ustekinumab (UST) supports the treatment optimization and the reduction of treatment costs.

ELISA Rapid tests Accessories

Gastroenterology

## Inflammatory Bowel Disease and Leaky-Gut Syndrom

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Enzyme immunoassays** | | | |
| RIDASCREEN® Calprotectin | Enzyme immunoassay for the quantitative determination of calprotectin | Stool | 96 | G09036 |
| 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 |
| | **Stool collection tubes** | | | |
| RIDA® TUBE Calprotectin | For the collection and preparation of stool samples,<br>• Only for use with RIDASCREEN® Calprotectin (Art. No. G09036) | Stool | 50 | GZ3016 |
| RIDA® TUBE | For collection and preparation of stool samples,<br>• Unfilled; to use after internal validation | Stool | 50 | GZ3013 |

## Pancreatic Diagnostics

| | | | | |
|---|---|---|---|---|
| | **Enzyme immunoassays** | | | |
| 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 |
| | **Stool collection tubes** | | | |
| Stool Preparation Set | For collection and preparation of stool samples,<br>• Only use with Pancreatic Elastase ELISA (Art. No. G09038 and Art. No. G09040) | Stool | 45 | GZ3008 |

Gastroenterology

## Therapeutic drug monitoring (TDM)

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Enzyme immunoassays** | | | |
| 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® 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® VDZ Monitoring | Enzyme immunoassay for the quantitative determination of vedolizumab (VDZ) | Serum/ plasma | 96 | G09045 |
| RIDASCREEN® GLM Monitoring | Enzyme immunoassay for the quantitative determination of golimumab (GLM) | Serum/ plasma | 96 | G09047 |
| RIDASCREEN® UST Monitoring | Enzyme immunoassay for the quantitative determination of ustekinumab (UST) | Serum/ plasma | 96 | G09049 Coming soon |
| | **Rapid tests** | | | |
| RIDA®QUICK IFX Monitoring | Immunochromatographic lateral flow assay for the quantitative determination of infliximab (IFX) and its biosimilars | Serum/ plasma | 25 | GN3041 |
| RIDA®QUICK ADM Monitoring | Immunochromatographic lateral flow assay for the quantitative determination of adalimumab (ADM) | Serum/ plasma | 25 | GN3043 |
| | **Control set for RIDA®QUICK** | | | |
| RIDA®QUICK IFX Monitoring Control Set | Control set<br>• Accessory for Art. No. GN3041 | – | – | GP3041 |
| RIDA®QUICK ADM Monitoring Control Set | Control set<br>• Accessory for Art. No. GN3043 | – | – | GP3043 |

# Quality assessment controls by Microbix

## Quality control (QC) ensures both precision and accuracy of patient sample results.

Effectively, QC is able to find and correct flaws in the analytical processes of a lab before potentially incorrect patient results are released. Maintaining accurate and frequent checks of laboratory sample testing through quality control is vital to ensuring that patient testing is done right and that it produces accurate results

The Microbix's quality assessment products (QAPs™) are composed of QAPs across the PROCEEDx™ , ONBOARDxTM and REDx™ Controls tradenames – to support whole-process accuracy of molecular and immunological tests for bacterial and viral diseases by emulating patient samples while being consistent, non-infectious, stable, and cross-instrument compatible. The QAPs ™ products are quality controls to support the accuracy of testing for respiratory viruses such as SARS-CoV-2 (COVID-19), Flu A, Flu B, and RSV, as well as the leading edge QAPs ™ for high-risk types of HPV and other sexually-transmitted infections

**REDx™ Controls** (CE) to ensure day-to-day consistency of an analytical process and assists in determining reliable patient test results.

**PROCEEDx™** (RUO) to ensure whether a device complies with its specification or imposed condition. Intended for use in internal processes (Verification). In addition, PROCEEDx™ can also be used to assure that a product meets customer needs and involves acceptance criteria for external users (validation).

**ONBOARDx™** (RUO) is a all-encompassing validation and verification kit for instrument/kit/assay qualification and operator training. Kit contains PROCEEDx™ (RUO) material.

Accessories

Quality assessment controls by Microbix

## Respiratory infections

| Product | Test compatibility | Art. No. | |
|---|---|---|---|
| | | PROCEEDx™ | REDx™ controls |
| Adenovirus Positive | Immunoassay | VP-15-01 | |
| Adenovirus + Rotavirus Positive | Nucleic acid | VP-15-02 | |
| *Chlamydia trachomatis* + *Neisseria gonorrhoeae* Positive | Nucleic acid | VP-12-M2 | |
| HSV 1 & 2 Positive | Nucleic acid; immunoassay | VP-02-M2 | |
| Influenza A Positive | Nucleic acid; immunoassay | VP-13-01 | |
| Influenza A Positive (swab) | Nucleic acid; immunoassay | VP-S-13-01 | |
| Influenza A + Adenovirus Positive | Nucleic acid; immunoassay | VP-13-04 | |
| Influenza A + B Positive | Immunoassay | VP-13-02 | |
| Influenza A + Rotavirus Positive | Immunoassay | VP-13-05 | |
| Influenza A + RSV Positive | Immunoassay | VP-13-03 | |
| Influenza B Positive | Nucleic acid; immunoassay | VP-14-01 | |
| Influenza B Positive (swab) | Nucleic acid; immunoassay | VP-S-14-01 | |
| Influenza B + Adenovirus Positive | Immunoassay | VP-14-03 | |
| Influenza B + Rotavirus Positive | Immunoassay | VP-14-04 | |
| Influenza B + RSV Positive | Immunoassay | VP-14-02 | |
| MDx Negative | Nucleic acid | VP-99-M1 | RED-99-M1 |
| Parainfluenza 3 Positive | Nucleic acid | VP-10-M1 | |
| RSV Positive | Nucleic acid; immunoassay | VP-07-01 | |
| RSV Positive (swab) | Nucleic acid; immunoassay | VP-S-07-01 | |
| RSV + Adenovirus Positive | Immunoassay | VP-07-02 | |
| RSV + Rotavirus Positive | Immunoassay | VP-07-03 | |
| SARS-CoV-2 Negative (vial) | Nucleic acid | VP-99-M3 | RED-99-M3 |
| SARS-CoV-2 Positive (vial) | Nucleic acid | VP-19-01 | RED-19-01 |
| SARS-CoV-2 Negative (swab) | Nucleic acid | VP-S-99-M4 | RED-S-99-M4 |
| SARS-CoV-2 Positive (swab) | Nucleic acid | VP-S-19-01 | RED-S-19-01 |
| SARS-CoV-2 Positive Ag (swab) | Immunoassay | VP-S-19-02 | |

Only available in selected countries.

Quality assessment controls by Microbix

## Respiratory infections

| Product | Test compatibility | Kit components | Art. No. |
|---|---|---|---|
| | | | ONBOARDx™ Kit |
| SARS-CoV-2 Vial Kit 01 | Nucleic acid | SARS-CoV-2 Positive (0.5mL) vial x 8<br>SARS-CoV-2 Negative (0.5mL) vial x 4 | VP-K-CoV2-01 |
| SARS-CoV-2 Swab Kit 01 | Nucleic acid | SARS-CoV-2 Positive Swab x 8<br>SARS-CoV-2 Negative Swab x 4 | VP-SK-CoV2-01 |
| Respiratory Swab Kit (RUO) | Nucleic acid | SARS-CoV-2 Positive Swab x 3<br>Influenza A Positive Swab x3<br>Influenza B Positive Swab x3<br>RSV Positive Swab x3 | VP-SK-RESP-01 |
| Respiratory Kit (RUO) | Nucleic acid | SARS-CoV-2 Positive Sample 3 x 0.5 mL vial<br>Influenza A Positive Sample 3 x 1.0 mL vial<br>Influenza B Positive Sample 3 x 1.0 mL vial<br>RSV Positive Sample 3 x 1.0 mL vial | VP-K-RESP-01 |
| | | | ONBOARDx™ Kit |
| FLOQ® SARS-CoV-2 Ag Swab Kit (RUO) | Immunoassay | SARS-CoV-2 Ag Positive swab x8<br>Respiratory Negative swab x4 | VP-SK-COV2AG-01 |
| FLOQ® SARS-CoV-2 Ag Swab Kit B (RUO) | Immunoassay | Sars-CoV-2 AG Positive swab x15<br>Respiratory Negative swab x5 | VP-SK-COV2AG-02 |
| Respiratory Swab Kit B (RUO) | Immunoassay | SARS-CoV-2 Ag Positive swab x5<br>Influenza A Positive swab x5<br>Influenza B Positive swab x5<br>RSV Positive swab x5 | VP-SK-RESPAG-02 |

## Gastrointestinal infections

| Product | Test compatibility | Art. No. | |
|---|---|---|---|
| | | PROCEEDx™ | REDx™ controls |
| Cryptosporidium Positive | Immunoassay | VP-37-02 | |
| Giardia Positive | Immunoassay | VP-37-03 | |
| Negative | Nucleic acid; immunoassay | VP-99-01 | |
| Negative (swab) | Nucleic acid; immunoassay | VP-S-99-01 | |
| Rotavirus Positive | Immunoassay | VP-35-01 | |

Only available in selected countries.

## Sexually transmitted infections

| Product | Test compatibility | Art. No. | |
|---|---|---|---|
| | | PROCEEDx™ | REDx™ Controls |
| *Chlamydia trachomatis* Positive | Nucleic acid | VP-12-M1 | |
| *Chlamydia trachomatis* Positive | Immunoassay | VP-12-01 | |
| HPV 16 Positive | Nucleic acid | VP-62-16 | RED-62-16 |
| HPV 18 Positive | Nucleic acid | VP-62-18 | RED-62-18 |
| HPV 31 Positive | Nucleic acid | VP-62-31 | |
| HPV 33 Positive | Nucleic acid | VP-62-33 | |
| HPV 39 Positive | Nucleic acid | VP-62-39 | |
| HPV 45 Positive | Nucleic acid | VP-62-45 | RED-62-45 |
| HPV 67 Positive (hr Negative) | Nucleic acid | VP-62-67 | |
| HSV 1 Positive | Nucleic acid | VP-02-M1 | |
| HSV 2 Positive | Nucleic acid | VP-23-M1 | |
| *Mycoplasma genitalium* | Nucleic acid | VP-63-01 | RED-63-01 |
| *Neisseria gonorrhoeae* Positive | Nucleic acid | VP-17-M1 | |
| *Trichomonas vaginalis* Positive | Nucleic acid | VP-61-02 | |
| *Trichomonas vaginalis* Positive | Nucleic acid; immunoassay | VP-61-01 | |

Only available in selected countries.

# Mycology

## In recent years, fungi have gained as pathogens more and more importance.

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.

*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 PCR technology that meet the diagnostic needs of laboratories.

Real-time PCR

Accessories

# Mycology

## Fungi

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| ***Pneumocystis jirovecii*** | **Real-time PCR** | | | |
| RIDA®GENE Pneumocystis jirovecii | Multiplex real-time PCR for the direct qualitative or quantitative detection of *Pneumocystis jirovecii* DNA in untreated human bronchoalveolar lavage (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

## In non-tropical areas are the most common diseases caused by parasites are Giardiasis, Cryptosporidiosis and Amebiasis.

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 though 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.

ELISA | Rapid tests | Real-time PCR | Accessories

Parasitology

## *Cryptosporidium* spp.

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE Parasitic Stool Panel I | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Giardia lamblia, Entamoeba histolytica, Cryptosporidium* spp. and *Dientamoeba fragilis* DNA in human stool samples | Stool | 100 | PG1715 |
| RIDA®GENE Parasitic Stool Panel II | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Giardia lamblia, Entamoeba histolytica* and *Cryptosporidium* spp. DNA in human stool samples | Stool | 100 | PG1725 |
| | **Enzyme immunoassay** | | | |
| RIDASCREEN® Cryptosporidium | Enzyme immunoassay for the detection of *Cryptosporidium parvum* and *Cryptosporidium hominis* in human stool samples | Stool | 96 | C1201 |
| | **Reference control for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Cryptosporidium Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A)<br>2.0 mL (B) | CRP1204 |

# Parasitology

## *Cryptosporidium* spp.

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Rapid tests** | | | |
| RIDA®QUICK Cryptosporidium | Immunochromatographic rapid assay for the detection of *Cryptosporidium parvum* and *Cryptosporidium hominis* in human stool samples<br>Single pouched cassettes | Stool | 20 | N1203 |
| RIDA®QUICK Cryptosporidium/Giardia Combi | Immunochromatographic rapid assay for the detection of *Cryptosporidium parvum*, *Cryptosporidium hominis* and/or *Giardia lamblia* in human stool samples<br>Single pouched cassettes | Stool | 20 | N1123 |
| RIDA®QUICK Cryptosporidium/Giardia/ Entamoeba Combi | Immunochromatographic rapid assay for the detection of *Cryptosporidium parvum*, *Cryptosporidium hominis*, *Giardia lamblia* and/or *Entamoeba histolytica* in human stool samples<br>Single pouched cassettes | Stool | 20 | N1723 |
| | **Controls for RIDA®QUICK** | | | |
| RIDA®QUICK Parasite Combi Control | Positive control | – | 1.8 mL | NP1704 |

## *Dientamoeba fragilis*

| | Real-time PCR | | | |
|---|---|---|---|---|
| RIDA®GENE Parasitic Stool Panel I | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Giardia lamblia, Entamoeba histolytica, Cryptosporidium* spp. and *Dientamoeba fragilis* DNA in human stool samples | Stool | 100 | PG1715 |

## *Entamoeba* spp.

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE Parasitic Stool Panel I | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Giardia lamblia, Entamoeba histolytica, Cryptosporidium* spp. and *Dientamoeba fragilis* DNA in human stool samples | Stool | 100 | PG1715 |
| RIDA®GENE Parasitic Stool Panel II | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Giardia lamblia, Entamoeba histolytica* and *Cryptosporidium* spp. DNA in human stool samples | Stool | 100 | PG1725 |
| ***Entamoeba*** | **Enzyme immunoassays** | | | |
| RIDASCREEN® Entamoeba histolytica IgG | Specific detection of IgG antibodies against *Entamoeba histolytica* | Serum | 96 | K1721 |
| RIDASCREEN® Entamoeba | Enzyme immunoassay for the detection of *Entamoeba histolytica/Entamoeba dispar* in human stool samples | Stool | 96 | C1701 |
| | **Reference controls for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Entamoeba Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A)<br>2.0 mL (B) | CRP1704 |
| | **Rapid tests** | | | |
| RIDA®QUICK Entamoeba | Immunochromatographic rapid assay for the detection of *Entamoeba histolytica/Entamoeba dispar* in human stool samples<br>Single pouched cassettes | Stool | 20 | N1703 |
| RIDA®QUICK Cryptosporidium/Giardia/ Entamoeba Combi | Immunochromatographic rapid assay for the detection of *Cryptosporidium* and/or *Giardia* and/or *Entamoeba* in human stool samples<br>Single pouched cassettes | Stool | 20 | N1723 |
| | **Controls for RIDA®QUICK** | | | |
| RIDA®QUICK Parasite Combi Control | Positive control | – | 1.8 mL | NP1704 |

Parasitology

## *Giardia lamblia*

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE Parasitic Stool Panel I | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Giardia lamblia, Entamoeba histolytica, Cryptosporidium* spp. and *Dientamoeba fragilis* in human stool samples | Stool | 100 | PG1715 |
| RIDA®GENE Parasitic Stool Panel II | Multiplex real-time PCR for the direct qualitative detection and differentiation of *Giardia lamblia, Entamoeba histolytica* and *Cryptosporidium* spp. in human stool samples | Stool | 100 | PG1725 |
| | **Enzyme immunoassay** | | | |
| RIDASCREEN® Giardia | Enzyme immunoassay for the detection of *Giardia lamblia* in human stool samples | Stool | 96 | C1101 |
| | **Reference controls for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Giardia Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A)<br>2.0 mL (B) | CRP1104 |
| | **Rapid tests** | | | |
| RIDA®QUICK Giardia | Immunochromatographic rapid assay for the detection of *Giardia lamblia*<br>Single pouched cassettes | Stool | 20 | N1103 |
| RIDA®QUICK Cryptosporidium/Giardia Combi | Immunochromatographic rapid assay for the detection of *Cryptosporidium parvum*, *Cryptosporidium hominis* and/or *Giardia lamblia* in human stool samples<br>Single pouched cassettes | Stool | 20 | N1123 |
| RIDA®QUICK Cryptosporidium/Giardia/ Entamoeba Combi | Immunochromatographic rapid assay for the detection of *Cryptosporidium parvum*, *Cryptosporidium hominis, Giardia lamblia* and/or *Entamoeba histolytica* in human stool samples<br>Single pouched cassettes | Stool | 20 | N1723 |
| | **Controls for RIDA®QUICK** | | | |
| RIDA®QUICK Parasite Combi Control | Positive control | – | 1.8 mL | NP1704 |

## Various

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

Parasitology

## Accessories

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| **Accessories** | **Color compensation** | | | |
| 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® 2.0 | – | 3 | PG0002 |
| RIDA®GENE Color Compensation Kit IV | To generate a Color Compensation File for RIDA®GENE real-time PCR experiments on the LightCycler® 480II** | – | 3 | PG0004 |
| | **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 |

* For RIDA®GENE products of the generation 1.0.
** For RIDA®GENE products of the generation 2.0.

# Virology

## Viruses are by far the most important pathogens of infections the upper respiratory tract as well as diarrhea.

Effective use of these diagnostic platforms enables the timely detection and control of infectious diseases caused by viral agents. We offer a broad 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 estimated 23 million cases a year in the USA. They are frequently the reason for 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 to detect norovirus infections in a simplee 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 such as Norovirus, Adenovirus, Astrovirus, Enterovirus, Parvovirus, Rotavirus, Sapovirus, Influenza, Parainfluenza, RSV, HSV, FSME, Mumps and Measles.

ELISA | Rapid tests | Real-time PCR | Accessories

Virology

## Adenovirus

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time RT-PCR** | | | |
| RIDA®GENE Adenovirus | Multiplex real-time PCR for the direct qualitative detection of Adenovirus DNA in untreated human nasal/throat swabs and BAL | Nasal/ throat swabs/BAL | 100 | PG1005 |
| RIDA®GENE Viral Stool Panel I | Multiplex real-time RT-PCR for the direct qualitative detection of Norovirus RNA, Rotavirus RNA, Adenovirus (subtype 40/41) DNA, and Astrovirus RNA in untreated stool samples | Stool | 100 | PG1315 |
| RIDA®GENE Viral Stool Panel II | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Rotavirus RNA, Astrovirus RNA, and Adenovirus 40/41 DNA in untreated stool samples | Stool | 100 | PG1325 |
| RIDA®GENE Viral Stool Panel III | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Norovirus RNA, Rotavirus RNA and Adenovirus 40/41 DNA in human stool samples | Stool | 100 | PG1335 |
| | **Enzyme immunoassay** | | | |
| RIDASCREEN® Adenovirus | Enzyme immunoassay for the detection of Adenoviruses in human stool samples | Stool | 96 | C1001 |
| | **Reference controls for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Adenovirus Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A) 2.0 mL (B) | CRP1004 |
| | **Rapid tests** | | | |
| RIDA®QUICK Rotavirus/Adenovirus Combi | Immunochromatographic rapid assay for the detection of Rotaviruses and/or Adenoviruses in human stool samples Box with strips | Stool | 25 | N1002 |
| RIDA®QUICK Rotavirus/Adenovirus Combi | Immunochromatographic rapid assay for the detection of Rotaviruses and/or Adenoviruses in human stool samples 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 genogroup I and II in human stool samples Single pouched cassettes | Stool | 20 | N1903 |
| | **Controls for RIDA®QUICK** | | | |
| RIDA®QUICK Rotavirus/Adenovirus Combi Control | Positive control | – | 1.8 mL | NP1904 |
| | **Sample diluent for RIDA®QUICK** | | | |
| Rotavirus/Adenovirus Sample diluent | Tubes with 1.5 mL sample diluent | Stool | 25 | ZN1004 |

# Virology

## Astrovirus

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time RT-PCR** | | | |
| RIDA®GENE Viral Stool Panel I | Multiplex real-time RT-PCR for the direct qualitative detection of Norovirus RNA, Rotavirus RNA, Adenovirus (subtype 40/41) DNA, and Astrovirus RNA in untreated stool samples | Stool | 100 | PG1315 |
| RIDA®GENE Viral Stool Panel II | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Rotavirus RNA, Astrovirus RNA, and Adenovirus 40/41 DNA in untreated stool samples | Stool | 100 | PG1325 |
| | **Enzyme immunoassay** | | | |
| RIDASCREEN® Astrovirus | Enzyme immunoassay for the detection of Astroviruses in human stool samples | Stool | 96 | C1301 |
| | **Reference control for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Astrovirus Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A)<br>2.0 mL (B) | CRP1304 |

## Coronavirus

| | | | | |
|---|---|---|---|---|
| | **Real-time RT-PCR** | | | |
| RIDA®GENE SARS-CoV-2 | Multiplex real-time RT-PCR for the direct qualitative detection of coronavirus (SARS-CoV-2) RNA from human throat and nasopharyngeal swabs | Nasal/ throat swab | 100<br>200 | PG6815<br>PG6820* |
| RIDA®GENE Flu & SARS-CoV-2 | Multiplex real-time RT-PCR for the direct qualitative detection and differentation of Flu A/Flu B and coronavirus (SARS-COV-2) RNA from human throat and nasopharyngeal swabs | Nasal/ throat swab | 200 | PG6825 |

* Only available within the EU and the EFTA countries

## Enterovirus

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| **Enterovirus** | **Real-time RT-PCR** | | | |
| RIDA®GENE Enterovirus | Multiplex real-time RT-PCR for the direct qualitative detection of enterovirus RNA (polioviruses, echoviruses, coxsackieviruses and human enteroviruses) in untreated human stool samples and cerebrospinal fluid | Stool/CSF | 100 | PG4705 |

## Epstein-Barr-Virus

| | Enzyme immunoassays | | | |
|---|---|---|---|---|
| *SeraSpot*® Anti-EBV-4 IgG | Specific detection of IgG antibodies against Epstein-Barr-Virus | Serum/ plasma | 96 | SP-013-4 G-S12 |
| *SeraSpot*® Anti-EBV-3 IgG | Specific detection of IgM antibodies against Epstein-Barr-Virus | Serum/ plasma | 96 | SP-013-3 M-S12 |

## Influenza

| | Real-time RT-PCR | | | |
|---|---|---|---|---|
| RIDA®GENE Flu | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Influenza A, Influenza B and H1N1v RNA in untreated human nasal/throat swabs | Nasal swab/ throat swab | 100 | PG0505 |
| RIDA®GENE Flu & RSV | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Influenza A, Influenza B and RSV RNA in human nasal/throat swabs and BAL | Nasal swab/ throat swab/BAL | 100 | PG0545 |

# Virology

## Hantavirus

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

## Measles

| Measles | Enzyme immunoassay | | | |
|---|---|---|---|---|
| RIDASCREEN®<br>Masern/Measles Virus IgG | Specific detection of IgG or IgM antibodies against Measles virus.<br>IgG-analysis in international units (mLU/mL) | Serum | 96 | K5421 |

## Mumps

| Mumps | Enzyme immunoassay | | | |
|---|---|---|---|---|
| RIDASCREEN®<br>Mumps Virus IgG<br>Mumps Virus IgM | Specific detection of IgG or IgM antibodies against Mumps virus | Serum<br>Serum | 96<br>96 | K5521<br>K5531 |

## Norovirus

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE Hospital Stool Panel | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Norovirus RNA (genogroup I and II), Rotavirus RNA and Clostridium difficile toxin genes A (tcdA) and B (tcdB) in human stool samples | Stool | 100 | PG0705 |
| RIDA®GENE Norovirus | Multiplex real-time RT-PCR for the direct qualitative detection of Norovirus RNA of genogroups I (GI) and II (GII) in untreated stool samples | Stool | 100 | PG1405 |
| RIDA®GENE Norovirus I & II | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Norovirus RNA of genogroups I (GI) and II (GII) in untreated stool samples | Stool | 100 | PG1415 |
| RIDA®GENE Norovirus GI/GII | Multiplex real-time RT-PCT for the simultaneous qualitative detection and differentiation of norovirus genogroup I (GI) and II (GII) nucleic acid | Stool | 100 | PG1445* |
| RIDA®GENE Viral Stool Panel I | Multiplex real-time RT-PCR for the direct qualitative detection of Norovirus RNA, Rotavirus RNA, Adenovirus (subtype 40/41) DNA, and Astrovirus RNA in untreated stool samples | Stool | 100 | PG1315 |
| RIDA®GENE Viral Stool Panel III | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Norovirus RNA, Rotavirus RNA and Adenovirus 40/41 DNA in human stool samples | Stool | 100 | PG1335 |
| | **Enzyme immunoassays** | | | |
| RIDASCREEN® Norovirus | Enzyme immunoassay for the detection of Noroviruses genogroup I and II in human stool samples | Stool | 96 | C1401 |
| RIDASCREEN® Norovirus | Enzyme immunoassay for the detection of Noroviruses genogroup I and II in human stool samples | Stool | 96 | C1401US* |
| | **Reference controls for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Norovirus Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A)<br>2.0 mL (B) | CRP1404 |
| | **Rapid tests** | | | |
| RIDA®QUICK Norovirus | Immunochromatographic lateral flow rapid assay for the detection of Noroviruses genogruop I and II in human stool sample<br>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 genogruop I and II in human stool sample<br>Single pouched cassettes | Stool | 20 | N1903 |
| | **Controls for RIDA®QUICK** | | | |
| RIDA®QUICK Norovirus Control | Positive control | – | 1.8 mL | NP1404 |

* Only for sale in the US.

Virology

## Parainfluenza

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| **Parainfluenza** | **Real-time RT-PCR** | | | |
| RIDA®GENE Parainfluenza | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of human Parainfluenza 1, 3 and 2/4 RNA in untreated human nasal/throat swabs | Nasal swab/ throat swab | 100 | PG5805 |

## Parvovirus

| | **Microspot arrays** | | | |
|---|---|---|---|---|
| *SeraSpot*® Anti-Parvovirus-6 IgG | Specific detection of IgG antibodies against Parvovirus | Serum/ plasma | 48 | SP-012-6 G-S6 |
| *SeraSpot*® Anti-Parvovirus-5 IgM | Specific detection of IgM antibodies against Parvovirus | Serum/ plasma | 48 | SP-012-5 M-S6 |

## Rotavirus

| Product | Description | Matrix | Tests | Art. No. |
|---|---|---|---|---|
| | **Real-time PCR** | | | |
| RIDA®GENE Hospital Stool Panel | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Norovirus RNA (genogroup I and II), Rotavirus RNA and Clostridium difficile toxin genes A (tcdA) and B (tcdB) in human stool samples | Stool | 100 | PG0705 |
| RIDA®GENE Viral Stool Panel I | Multiplex real-time RT-PCR for the direct qualitative detection of Norovirus RNA, Rotavirus RNA, Adenovirus (subtype 40/41) DNA, and Astrovirus RNA in untreated stool samples | Stool | 100 | PG1315 |
| RIDA®GENE Viral Stool Panel II | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Rotavirus RNA, Astrovirus RNA, and Adenovirus 40/41 DNA in untreated stool samples | Stool | 100 | PG1325 |
| RIDA®GENE Viral Stool Panel III | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Norovirus RNA, Rotavirus RNA and Adenovirus 40/41 DNA in human stool samples | Stool | 100 | PG1335 |
| | **Enzyme immunoassay** | | | |
| RIDASCREEN® Rotavirus | Enzyme immunoassay for the detection of Rotaviruses in human stool samples | Stool | 96 | C0901 |
| | **Reference control for RIDASCREEN® ELISA** | | | |
| RIDASCREEN® Rotavirus Reference Controls | Reference controls A (positive) and B (negative) | – | 2.0 mL (A)<br>2.0 mL (B) | CRP0904 |
| | **Rapid tests** | | | |
| RIDA®QUICK Rotavirus | Immunochromatographic rapid assay for the detection of Rotaviruses in human stool samples<br>Single pouched cassettes | Stool | 20 | N0903 |
| RIDA®QUICK Rotavirus/Adenovirus Combi | Immunochromatographic rapid assay for the detection of Rotaviruses and/or Adenoviruses in human stool samples<br>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 genogroup I and II in human stool samples<br>Single pouched cassettes | Stool | 20 | N1903 |
| | **Controls for RIDA®QUICK** | | | |
| RIDA®QUICK Rotavirus/Adenovirus Combi Control | Positive control | – | 1.8 mL | NP1904 |
| | **Sample diluent for RIDA®QUICK** | | | |
| 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. |
|---|---|---|---|---|
| **RSV & hMPV** | **Real-time RT-PCR** | | | |
| RIDA®GENE RSV & hMPV | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of RSV and hMPV RNA in untreated human nasal/throat swabs and BAL | Nasal/ throat swabs, BAL | 100 | PG5905 |
| RIDA®GENE Flu & RSV | Multiplex real-time RT-PCR for the direct qualitative detection and differentiation of Influenza A, Influenza B and RSV RNA in human nasal/throat swabs and BAL | Nasal/ throat swabs, BAL | 100 | PG0545 |

## Sapovirus

| Sapovirus | Real-time RT-PCR | | | |
|---|---|---|---|---|
| RIDA®GENE Sapovirus | Multiplex real-time RT-PCR for the direct qualitative detection of Sapovirus RNA in human stool samples | Stool | 100 | PG1605 |

## Accessories

| Accessories | Color compensation | | | |
|---|---|---|---|---|
| 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 IV | To generate a Color Compensation File for RIDA®GENE real-time PCR experiments on the LightCycler® 480II** | – | 3 | PG0004 |
| **Accessory** | **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 |

* For RIDAGENE products of the generation 1.0.
** For RIDAGENE products of the generation 2.0.

# Systems

## Tailored system solutions considering your workflow.

Reliable products and high quality are standard in clinical laboratories. Moreover, time and costs play an increasingly important role which can optimally be addressed with suitable automation solutions. This is where R-Biopharm comes in with its automation products and services. In cooperation with renowned partners, R-Biopharm offers equipment and software solutions from small to high sample throughput for your specific laboratory requirements.

**Systems & software**
R-Biopharm offers different platforms for ELISA, real-time PCR and rapid tests.

- The lateral flow reader RIDA®QUICK SCAN II is R-Biopharm's solution for secure analysis and quality-assured documentation in the field of therapeutic drug monitoring.

- For molecular diagnostics R-Biopharm offers the automated interpretation software RIDA®SEEK for RIDA®GENE real-time PCR kits. RIDA®SEEK enables qualitative interpretation of results from PCR cycler raw data. The RIDA®CYCLER is a compact and flexible 4 channel real-time PCR instrument based on innovative magnetic induction technology (for research use only).

- All R-Biopharm ELISA tests are verified on various automation systems. Further, R-Biopharm provides convenient software solutions for measurement, evaluation and documentation of RIDASCREEN® ELISA tests and RIDA qLine®.

**Services**
It is R-Biopharm's ambition to accompany you as a reliable partner during planning, installation and also later in your daily routine. Therefore, R-Biopharm's application specialists are always on your disposal and work continuously on the improvement, updating and validation of all systems and instruments.

# Systems

## Molecular diagnostics

| Product | Description | Units | | Art. No. |
|---|---|---|---|---|
| | | | | |
| RIDA®CYCLER | qPCR thermocycler 4 channels, incl. 1 box with reaction tubes (for research use only) | 1 | – | ZRCYCLER |
| RIDA®CYCLER-MIC-Tubes | Box with 960 reaction tubes and caps | 1 | – | ZRC-MIC-TUBES |
| RIDA®CYCLER TVS | Temperature verification system for RIDA®CYCLER | 1 | – | ZRCYCLER-TVS |
| RIDA®SEEK | Software for evaluation and documentation of RIDA®GENE real-time PCR kits | 1 | – | ZRIDASEEK |

## Immunoassay systems and evaluation software

| | | | | |
|---|---|---|---|---|
| | **ELISA systems** | | | |
| 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<br>Z65400 |
| Dynex Agility® | Fully automated 12-microtiter plate analyzer with 12 incubators | 1 | – | ZAGILITY |
| | **ELISA washer, reader and evaluation software** | | | |
| RIDA®ABSORBANCE 96 | 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 |

## 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 |
| Honeywell Xenon 1900 | 2D barcode scanner for ZRQS2-KD | 1 | – | ZRQS2-BS |
| RIDA®QUICK SCAN II Control strip | Control strip for control measurement on ZRQS2-KD | 1 | – | ZRQS2-KS-KD |

Systems

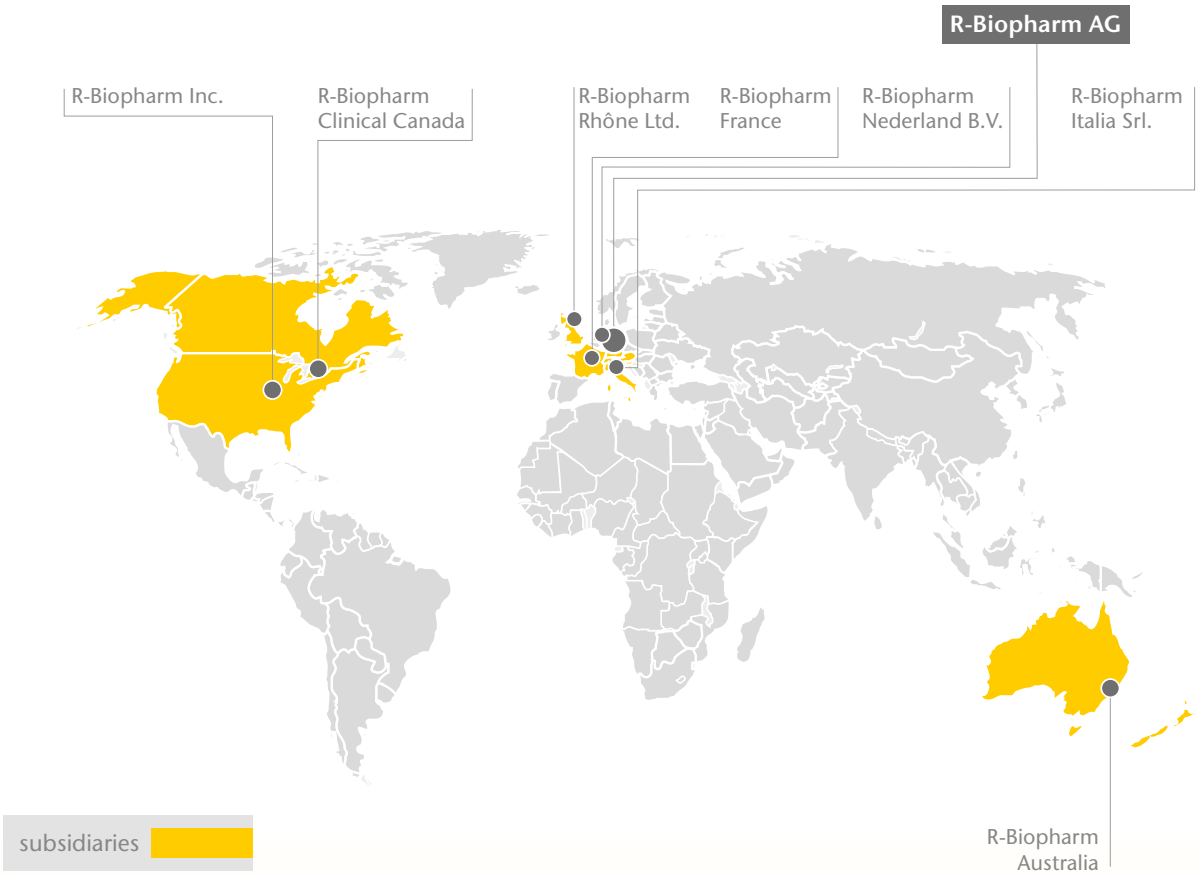
## Blot systems and evaluation software

| 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 - 240 V) | 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 |
| RIDA qLine® autoBlot Screw cap bottle 20 mL | Screw cap bottle (20 mL) for RIDA qLine® autoBlot box of 120 pcs. | 1 | – | Z0011 |
| RIDA qLine® autoBlot Screw cap for Z0011 | Screw cap for Z0011 box of 120 pcs. | 1 | – | Z0012 |
| RIDA qLine® autoBlot Pipet tips | Pipet tips for RIDA qLine® autoBlot, Box of 100 trays á 96 tips = 9600 pcs. | 1 | – | Z0013 |
| RIDA qLine® autoBlot Maintenance Pack | Maintenance pack for RIDA qLine® autoBlot | 1 | – | ZATB-F-MPK |

## Microspot array diagnostics

| | | | | |
|---|---|---|---|---|
| *SpotSight*® strip | Scanner for image acquisition and interpretation (strip) | 1 | – | Z-SP-STRIP-B |
| *SpotSight*® plate mono | Scanner for image acquisition and interpretation (plate) | 1 | – | Z-SP-PLATE-C |

# R-Biopharm Clinical – contact us

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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 another 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 themselves 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 lability 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.

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12/2020