

Gastrointestinal

r-biopharm®



Efficient

Detect up to 40 targets with a single panel



Precise

High specificity and sensitivity for reliable results



Convenient

Intuitive, user-friendly workflow

r-biopharm.com.au

RIDA®Plex

The clinical profile of gastrointestinal infection may be caused by a range of pathogen types, including bacteria, protozoan parasites, worms and enteric viruses. A multiplexed approach is advantageous in efficient symptomatic screening of these pathogens and their toxins.

RIDA®Plex panels feature our proprietary multiplex tandem PCR (MT-PCR) technology, a highly multiplexed molecular method that empowers users with the added capability to detect viruses, bacteria, protozoa and parasites in a single run. MT-PCR enables comprehensive syndromic diagnosis and earlier medical intervention. In addition, a comprehensive test allows the detection of multiple pathogens that are responsible for a single symptom.

The 2-step process mitigates competition during amplification, ensuring reliable detection of targets with differing concentration levels in the specimen.

Multiplexed molecular methods are becoming the gold standard for the detection of gastrointestinal pathogens due to their superior sensitivity, rapid turnaround time, simplicity and ability to identify multiple pathogens, some of which are slow growing or difficult to culture

Benefits of RIDA®Plex Panels

- Detect up to 40 targets with a single panel
- High specificity for reliable results
- Separated 2-step process that allows parallel processing for greater efficiency
- Low volume of sample required, allowing for further analysis of the remainder of the sample
- Low number of multiplexed amplification cycles which limits competition and preserves quantitation

RX
24

RIDA®Plex panel compatible with RIDA®Xplore Instrument

RJ
96

RIDA®Plex panel compatible with RIDA®Jump Instrument

8
well

8 well RIDA®Plex panel

12
well

12 well RIDA®Plex panel

16
well

16 well RIDA®Plex panel

24
well

24 well RIDA®Plex panel

Gastrointestinal RIDA®Plex Panels

Bacteria, Parasites & Viruses

Panels designed in collaboration with our healthcare partners to meet industry needs for efficient symptomatic coverage, including the most common bacterial pathogens, shiga toxins, obligatory pathogenic parasites, and enteric viruses.

RIDA®Plex Faecal Pathogens A 16 well

REF 25031 | IVD

RX
24

RJ
96

Bacteria

<i>Aeromonas</i> spp.	<i>Salmonella</i> spp.
<i>Campylobacter coli</i>	<i>Shigella</i> spp.
<i>Campylobacter jejuni</i>	<i>Yersinia enterocolitica</i>
<i>Clostridioides difficile</i>	<i>Yersinia pseudotuberculosis</i>

Parasites

<i>Blastocystis</i> ST1, ST2 and ST3	<i>Entamoeba histolytica</i>
<i>Cryptosporidium</i> spp.	<i>Giardia lamblia</i>
<i>Dientamoeba fragilis</i>	

Viruses

Norovirus (Genogroups I and II)	Rotavirus A
Human Adenovirus (Groups F and G)	

RIDA®Plex Faecal Pathogens B 16 well

REF 25033 | IVD

RX
24

RJ
96

Bacteria

<i>Campylobacter coli</i>	<i>Salmonella</i> spp.
<i>Clostridioides difficile</i>	<i>Shigella</i> spp.
<i>Campylobacter jejuni</i>	Shiga toxins 1 and 2
<i>Escherichia coli</i> serotype O157	

Parasites

<i>Cryptosporidium</i> spp.	<i>Giardia lamblia</i>
<i>Entamoeba histolytica</i>	

Viruses

Human Adenovirus (Groups F and G)	Rotavirus A
Astrovirus (Serotypes 1 to 8)	Sapovirus (Genogroups I, II and IV)
Norovirus (Genogroups I and II)	

RIDA®Plex Faecal Pathogens M 16 well

REF 25039 | IVD

RX
24

RJ
96

Bacteria

<i>Aeromonas</i> spp.	<i>Shigella</i> spp.
<i>Campylobacter coli</i>	Shiga toxins 1 and 2
<i>Campylobacter jejuni</i>	<i>Yersinia enterocolitica</i>
<i>Clostridioides difficile</i>	<i>Yersinia pseudotuberculosis</i>
<i>Salmonella</i> spp.	

Parasites

<i>Cryptosporidium</i> spp.	<i>Giardia lamblia</i>
<i>Entamoeba histolytica</i>	

Viruses

Human Adenovirus (Groups F and G)	Rotavirus A
Astrovirus (Serotypes 1 to 8)	Sapovirus (Genogroups I, II and IV)
Norovirus (Genogroups I and II)	

RIDA®Plex STEC Typing 16 well
REF 26131 | RUO

RX
24

Bacteria

Escherichia coli
Escherichia coli serotyping
EPEC

STEC
Shiga toxins 1 and 2

RIDA®Plex Enteric Viruses 8 well
REF 85037 | IVD

RX
24

RJ
96

Viruses

Human Adenovirus (Groups F and G)
Astrovirus (Serotypes 1 to 8)
Norovirus (Genogroups I and II)

Enterovirus (Types A, B, C and D)
Rotavirus A
Sapovirus (Genogroups I, II and IV)

RIDA®Plex Faecal Bacteria and Parasites 12 well
REF 85041 | IVD

RX
24

RJ
96

Bacteria

Campylobacter coli
Campylobacter jejuni
Clostridioides difficile
Escherichia coli serotype O157
Salmonella spp.

Shigella spp.
Shiga toxins 1 and 2
Yersinia enterocolitica
Yersinia pseudotuberculosis

Parasites

Cryptosporidium spp.
Entamoeba histolytica

Giardia lamblia

RIDA®Plex Faecal Bacteria and Parasites A 12 well
REF 85046 | RUO

RX
24

Bacteria

Aeromonas spp.
Campylobacter jejuni
Campylobacter coli
Clostridioides difficile
Escherichia coli serotype O157
Yersinia enterocolitica

Yersinia pseudotuberculosis
Shigella spp.
Shiga toxins 1 and 2
Vibrio cholera (including cholera toxin)
Vibrio parahaemolyticus
Vibrio vulnificus

Parasites

Cryptosporidium spp.
Entamoeba histolytica

Giardia lamblia

Parasites & Helminths

Broad multiplex panels delivering accurate detection of intestinal parasites, from protozoa to helminths, within a unified and easy-to-use workflow.

RIDA®Plex Worms and Parasites 16 well
REF 25044 | RUO

RX
24

Parasites

Ancylostoma spp.
Ascaris lumbricoides
Blastocystis spp.
Blastocystis hominis (Types 1 and 3)
Cryptosporidium spp.
Cyclospora cayetanensis
Dientamoeba fragilis
Entamoeba histolytica
Enterobius vermicularis

Giardia duodenali
Giardia lamblia
Hymenolepis nana
Necator americanus
Schistosoma mansoni
Strongyloides stercoralis
Taenia saginata
Taenia solium
Trichuris trichiura

RIDA®Plex Parasites 8 well
REF 85021 | IVD

RX
24

RJ
96

Bacteria

Blastocystis hominis (Types 1 and 3)
Cryptosporidium spp.
RUO: *Cyclospora cayetanensis*

Dientamoeba fragilis
Entamoeba histolytica
Giardia lamblia

Skip Extraction with RIDA®PrepX Stool Kit

RIDA®PrepX Stool Kit is part of our growing portfolio of pretreatment buffers empowering users to improve their sample preparation and purification protocols.

RIDA®PrepX Stool Kit | Extraction-Free Buffer

Skip the need for lengthy extraction processing and treat your specimens with RIDA®PrepX Stool Kit.

Ideal for improving daily throughput, RIDA®PrepX Stool Kit integrates seamlessly into your PCR workflow to simplify diagnostic testing.

Empowering users with a convenient, time-saving workflow, RIDA®PrepX Stool Kit is ideal when rapid, reliable results are critical to patient outcomes.

- Eliminates the need for extraction prior to PCR
- Extraction-free protocol available on the RIDA®Jump
- Rapid 20 minute protocol per run plus minimal manual handling
- Simple specimen processing achieves efficient capture of PCR inhibitors
- Automatic sampling directly from RIDA®PrepX Stool Kit tubes achieved with the MT-PCR Assay Setup software.



Automation

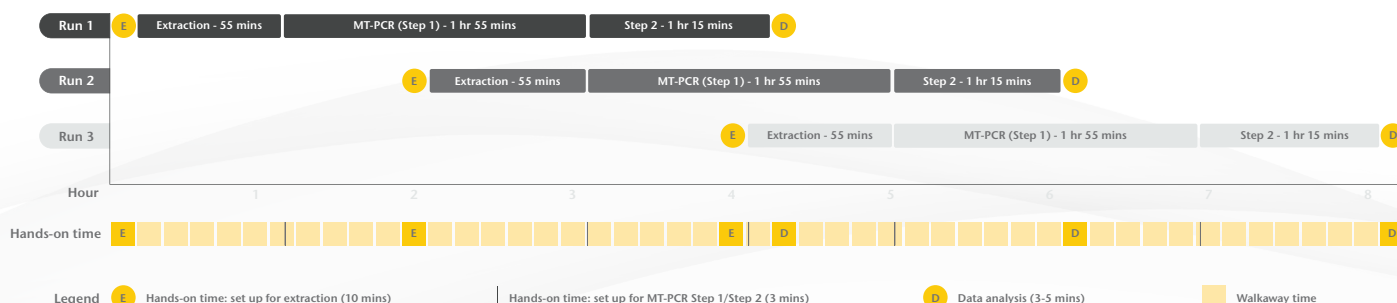
Diagnostic testing using RIDA®Plex panels is effortless with automation solutions for any workflow, ranging from low to high throughput and screening applications.

RIDA®Xplore Alliance

Low-Medium Throughput

RIDA®Xtract 24 extraction with RIDA®Xplore MT-PCR processing

- Sample to results from up to 24 samples¹ in approx. 4 hrs 30 mins
Extraction: 35 – 55 mins² | MT-PCR: 3 hrs 30 mins
- Quick and easy setup in approx. 2 mins
- Ready-to-use reagents and key plastic consumables
- Small footprint – requires less than 2m of bench space
- UV deck sterilisation to prevent cross contamination
- Automatic results calling
- LIMS compatible



¹8 well, 12 well and 16 well RIDA®Plex panels can run up to 24 samples; 24 well RIDA®Plex panels can run up to 16 samples.

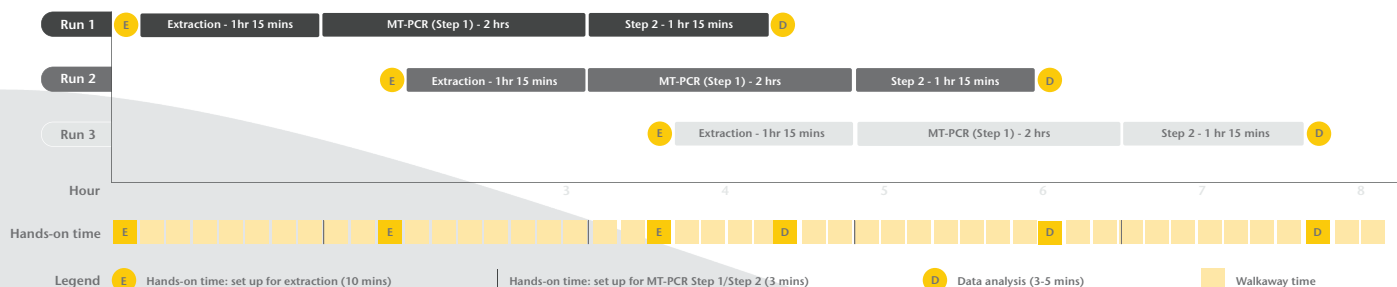
²Using RIDA®Xtract 24 Pathogen Kit. Approx. 35-minute rapid protocol, 55-minute standard protocol for up to 24 samples.

RIDA®Jump Alliance

High Throughput

RIDA®Xtract 96* (coming soon) extraction with RIDA®Jump MT-PCR processing

- Sample to results from up to 96 primary samples³ in approx. 4 hrs 15 mins
- Extraction: 1 hr 15 mins⁴ | MT-PCR: 3 hrs 30 mins
- Set up in approx. 2 mins
- Ready-to-use reagents and key plastic consumables
- Multi-channel pipetting for efficient processing
- Use with universal RIDA®Plex panels
- Automatic results calling
- LIMS compatible



³8 well, 12 well and 16 well RIDA®Plex panels can run up to 96 samples; 24 well RIDA®Plex panels up to 64 samples.

⁴Sample purification using RIDA®Xtract 96 DNA/RNA Kit (currently registered as Puryx Comprehensive DNA/RNA Extraction Kit).

*RIDA®Xtract 96 registered as MT-Prep XL

Sample RIDA®Plex Results

Presence of a target gene is represented by the fluorescence detected during the MT-PCR process. These results (Figure 1) are also presented as melt curves and gene targets detected in the sample are automatically called for clear diagnosis.



Figure 1: Sample results for RIDA®Plex Faecal Pathogens M 16 well (Ref 25039). Sample results are generated from positive controls.

Product Portfolio



RIDA®Plex



RIDA®Prep



RIDA®PrepX



RIDA®Xtract 24



RIDA®Xtract 96



Automation Systems



Dermatophytes



Gastrointestinal



Respiratory Pathogens



Hospital Care



Drug Resistance



Sexual Health



Urinary Tract Infections



Women's Health



Vector-Borne Infections



Animal Health



Applied Testing

Ordering Information

Each RIDA®Plex panel requires the following to run:

1. RIDA®Plex Step 1 Tubes (e.g. 25031S)
2. RIDA®Plex Step 2 Plates (e.g. 25031P)
3. Reagent Cassette for RIDA®Xplore or Reagent Reservoir for RIDA®Jump instruments
4. A RIDA®Plex Positive Control



Learn More

Key Reagents

#####S	RIDA®Plex Step 1 for the desired panel	RX 24	RJ 96
#####P	RIDA®Plex Step 2 for the desired panel	RX 24	RJ 96
40241	RIDA®Plex S DNA Cassette ¹	RX 24	
40231	RIDA®Plex L DNA Cassette ¹	RX 24	
40341	RIDA®Plex S RNA Cassette ¹	RX 24	
40331	RIDA®Plex L RNA Cassette ¹	RX 24	
40631	RIDA®Plex S DNA Reservoir ²		RJ 96
40621	RIDA®Plex M DNA Reservoir ²		RJ 96
40611	RIDA®Plex L DNA Reservoir ²		RJ 96
40731	RIDA®Plex S RNA Reservoir ²		RJ 96
40721	RIDA®Plex M RNA Reservoir ²		RJ 96
40711	RIDA®Plex L RNA Reservoir ²		RJ 96
91031	RIDA®Plex Positive Control Faecal Pathogens	RX 24	RJ 96
RIDA®Xplore Alliance		RX 24	
96420	RIDA®Xtract 24		
96521	RIDA®Xplore		
RIDA®Jump Alliance			RJ 96
96120	RIDA®Xtract 96 ³		
96221	RIDA®Jump		

¹Reagent Cassettes are for use with the RIDA®Xplore.

²Reagent Reservoirs are for use with the RIDA®Jump.

³RIDA®Xtract 96 registered as MT-Prep XL

Ordering information on consumables for the RIDA®Xplore Alliance and RIDA®Jump Alliance is available from your local R-Biopharm Australia representative.



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