

Vector-Borne Infections

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

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RIDA®Plex

Vector-borne tropical infections may be caused by a range of viral, bacterial, or protozoan pathogens. The number of candidates and the required range of diagnostic sensitivity poses a challenge for clinicians.

RIDA®Plex panels feature multiplex-tandem PCR (MT-PCR), a multiplexed molecular method that provides the added capability to detect multiple gene targets in one go, allowing vastly superior sensitivity and clinical coverage. The 2-step process ensures simultaneous clinical sensitivity for parasites, viruses and resistance genes by mitigating competitive binding.

Multiplexed molecular methods are becoming the gold standard for the detection of vector-borne pathogens due to their superior sensitivity, rapid turnaround time, simplicity, and ability to identify multiple mutants. When combined with antimicrobial resistance gene detection, RIDA®Plex panels allow clinicians to deliver the most informed treatments quickly, improving patient outcomes while ensuring antimicrobial stewardship.

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

Vector-Borne Infections RIDA®Plex Panels

Combinations of viral, bacterial, and protozoan targets with Artemisinin resistance to rapidly inform clinical interventions.

RIDA®Plex Mosquito-Borne Infections 16 well REF 27157 | RUO

RX
24

Parasites

Plasmodium spp.

Resistance Genes

Artemisinin resistance SNP C580Y in
Plasmodium spp.

Viruses

Dengue Virus 1	Japanese Encephalitis
Dengue Virus 2	Kunjin virus
Dengue Virus 3	Murray Valley Encephalitis Virus
Dengue Virus 4	Ross River Virus
Barmah Forest Virus	West Nile virus
Chikungunya Virus	Zika Virus



Automation

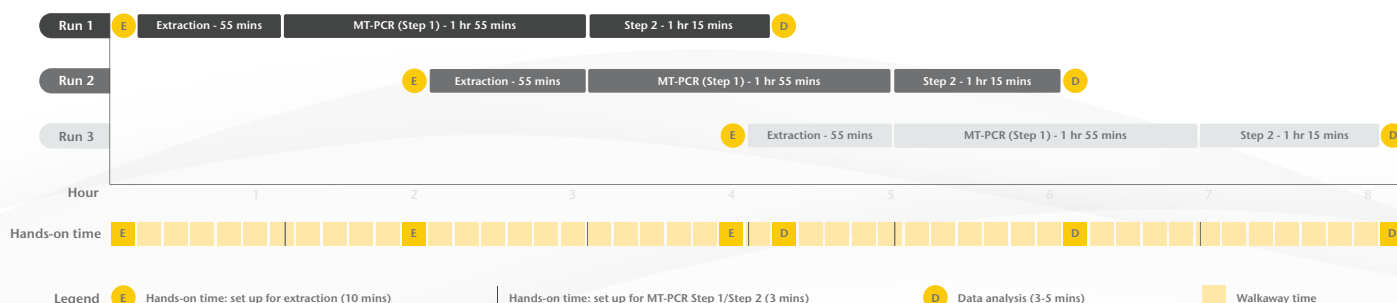
Diagnostic testing using RIDA®Plex panels is effortless with automation solutions for any workflow, ranging from low to high throughput and screening applications.

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.

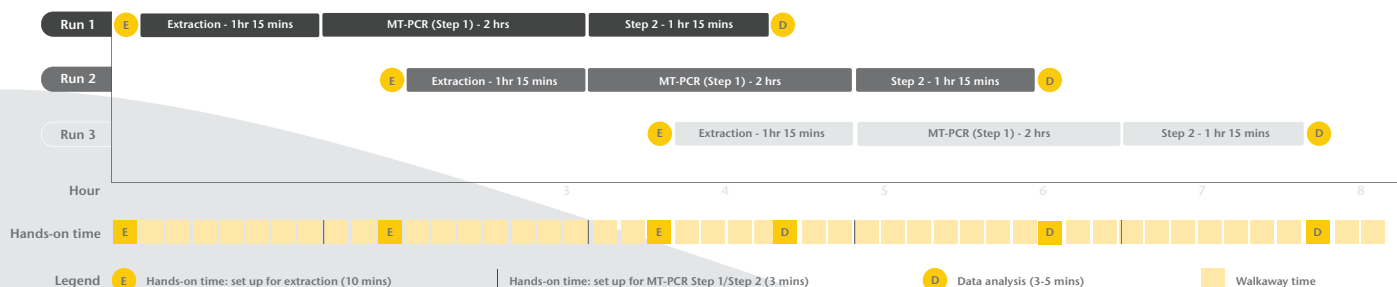
²Using RIDA®Xtract 24 Pathogen Kit. Approx. 35-minute rapid protocol, 55-minute standard protocol for up to 24 samples.

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 Mosquito-borne 16-well panel (Ref 27157). 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



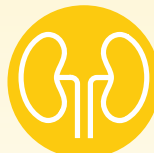
Hospital Care



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. 27157S)
2. RIDA®Plex Step 2 Plates (e.g. 27157P)
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	RI 96
#####P	RIDA®Plex Step 2 for the desired panel	RX 24	RI 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		RI 96
40621	RIDA®Plex M DNA Reservoir ²		RI 96
40611	RIDA®Plex L DNA Reservoir ²		RI 96
40731	RIDA®Plex S RNA Reservoir ²		RI 96
40721	RIDA®Plex M RNA Reservoir ²		RI 96
40711	RIDA®Plex L RNA Reservoir ²		RI 96
91600	RIDA®Plex Positive Control Vector-Borne Panels	RX 24	RI 96
RIDA®Xplore Alliance		RX 24	
96420	RIDA®Xtract 24		
96521	RIDA®Xplore		
RIDA®Jump Alliance			RI 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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