

Drug Resistance

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

R-Biopharm Australia offers a comprehensive suite of molecular diagnostics for antimicrobial resistance, enabling same-day, multiplexed detection of critical resistance markers encountered in hospitals and hospital care settings, such as carbapenemases, extended-spectrum β -lactamases (ESBLs), methicillin resistance (*mecA*) and vancomycin resistance genes (*vanA/vanB*).

Our IVD-compliant RIDA®Plex range supports antimicrobial stewardship by delivering fast, accurate and clinically actionable results. By reducing time to identification and resistance profiling, clinicians can make informed therapy decisions earlier, minimise broad-spectrum antibiotic use and implement timely infection control measures to reduce transmission within healthcare environments.

RIDA®Plex panels features our proprietary multiplex tandem PCR (MT-PCR) technology, a highly multiplexed molecular method that empowers users with the added capability to detect multiple pathogens and antimicrobial resistance genes in a single run.

MT-PCR enables comprehensive syndromic diagnosis and earlier medical intervention. This is important in the global fight against antimicrobial resistance and improving 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

Drug Resistance RIDA®Plex Panels

CRE & ESBL

Clinically relevant panels detect resistance markers in *Enterobacteriaceae* responsible for infections in healthcare and community settings. With rising levels of extended-spectrum β -lactamases (ESBL), testing is increasingly important as carbapenems are among the few effective treatments, though resistance such as carbapenemases remains a major concern.

RIDA®Plex ESBL 16 well REF 21093 | RUO

RX
24

Resistance Genes

Ambler Class A Carbapenemases

CTX-M Groups 1 and 9	pan-TEM
KPC	VEB
pan-SHV	

Ambler Class B Metallo- β -Lactamases

pan-IMP	VIM
NDM	

Ambler Class C β -Lactamases

CMY-1	DHA-1
pan-CMY	

Ambler Class D β -Lactamases

OXA-1	OXA-48-like
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RIDA®Plex CRE 16 well REF 21098 | IVD

RX
24

Resistance Genes

Ambler Class A Carbapenemases

CTX-M Groups 1 and 9	IMI
GES	SME
KPC	

Ambler Class B Metallo- β -Lactamases

pan-IMP	pan-VIM
NDM-1	

Ambler Class C β -Lactamases

pan-CMY

Ambler Class D β -Lactamases

OXA-23-like	OXA-51-like
OXA-48-like	OXA-58

RIDA®Plex CRE EU 16 well REF 21099 | IVD

RX
24

Resistance Genes

Ambler Class A Carbapenemases

FRI	KPC
GES	SME
IMI	

Ambler Class B Metallo- β -Lactamases

GIM	NDM-1
IMP-8	pan-VIM
IMP-14	SIM
pan-IMP	SPM

Ambler Class D β -Lactamases

OXA-48-like

Other

Mobilised colistin resistance gene (*mcr-1*)

RIDA®Plex CRE EU Reference 24 well
REF 81099 | RUO

RX
24

Resistance Genes

Ambler Class A Carbapenemases

FRI	PER
GES	SME
IMI	VEB
KPC	

Ambler Class B Metallo- β -Lactamases

DIM	NDM
GIM	SIM
IMP-8	SPM
IMP-14	VIM
pan-IMP	

Ambler Class D β -Lactamases

OXA-23-like	OXA-51-like
OXA 24/40	OXA-58
OXA-48-like	

Other

D179Y	Mobilised colistin resistance gene (mcr-1)
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Gram Positive Resistance

A select panel of gram-positive pathogens that are a common cause of wound, urinary tract and nosocomial infections, in addition to their antimicrobial resistance markers.

RIDA®Plex Staphylococcus and VRE 8 well
REF 21340 | IVD

RX
24

Bacteria

<i>Enterococcus faecalis</i>	<i>Staphylococcus aureus</i>
<i>Enterococcus faecium</i>	

Resistance Genes

Methicillin resistance gene <i>mecA</i> in <i>S. aureus</i>	Vancomycin resistance genes <i>vanA</i> and <i>vanB</i> in <i>Enterococcus</i> spp.
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RIDA®Plex Staphylococcus Typing 8 well
REF 21341 | IVD

RX
24

Bacteria

<i>Staphylococcus</i> spp.	<i>Staphylococcus epidermidis</i>
<i>Staphylococcus aureus</i>	

Resistance Genes

Methicillin resistance gene <i>mecA</i> in <i>S. aureus</i> , including <i>Mec LGA251</i>	Cytotoxin Pantun-Valentine Leukocidin (PVL) in <i>S. aureus</i>
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Automation

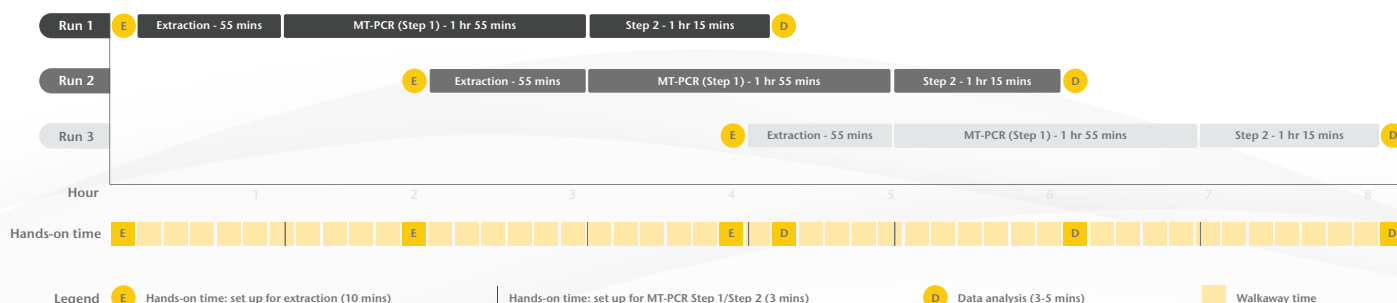
Diagnostic testing using RIDA®Plex panels is effortless with automation solutions for any workflow, ranging from low to high throughput and screening applications.

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.

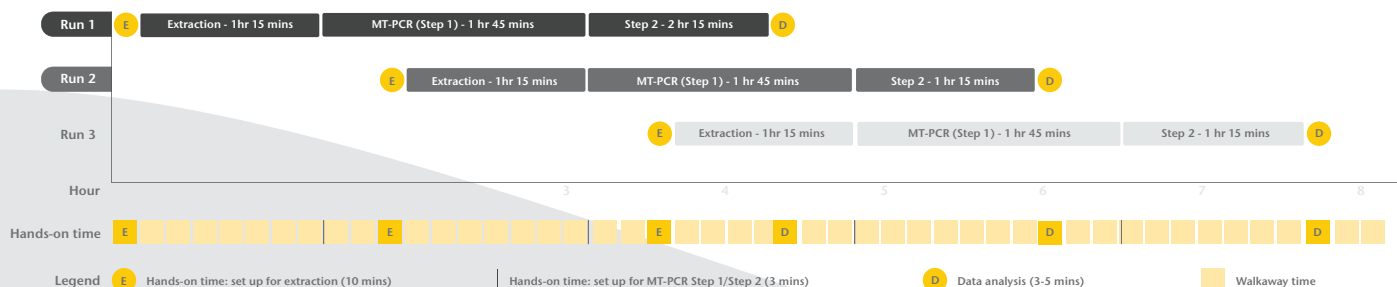
²Using RIDA®Xtract 24 Pathogen Kit. Approx. 35-minute rapid protocol, 55-minute standard protocol for up to 24 samples.

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 CSF 16 well Panel (REF 27050). Part of R-Biopharm Australia's Hospital Care portfolio.

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. 21093S)
2. RIDA®Plex Step 2 Plates (e.g. 21093P)
3. Reagent Cassette for RIDA®Xplore or Reagent Reservoir for RIDA®Jump instruments
4. A RIDA®Plex Positive Control



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
91151	RIDA®Plex Positive Control Bacteria and Resistances	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.



R-Biopharm Australia

290-292 Coward Street
Mascot NSW 2020
Australia

+61 2 9698 8030

info@r-biopharm.com.au