

Hospital Care

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

Central nervous system (CNS) infections such as meningitis and encephalitis are medical emergencies that require rapid, accurate pathogen identification to guide timely treatment and improve patient outcomes. Delay in diagnosis have implications in morbidity and mortality, underscoring the need for sensitive and comprehensive diagnostic tools capable of informing early clinical decision-making.

R-Biopharm Australia's RIDA®Plex molecular diagnostic solutions for cerebrospinal fluid (CSF) enable same-day detection of key bacterial and viral pathogens commonly associated with CNS infections. Using syndromic testing approaches, RIDA®Plex panels support the simultaneous identification of major bacterial causes of meningitis, including *Neisseria meningitidis*, as well as a broad range of viral pathogens implicated in aseptic meningitis and encephalitis.

Powered by proprietary multiplex tandem PCR (MT-PCR) technology, RIDA®Plex syndromic panels deliver highly multiplexed, reliable results in a single workflow, even when pathogen load is low. This comprehensive approach supports earlier medical intervention, reduces unnecessary antimicrobial use and enhances clinical confidence in the management of suspected CNS infections across diverse patient populations, including neonates, immunocompromised patients and critically ill adults.

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

Hospital Care RIDA®Plex Panels

Encephalitis, Meningitis, & Herpes

Analysis of cerebrospinal fluid (CSF) is crucial for the diagnosis and management of central nervous system (CNS) infections. Molecular methods for the detection and identification of bacterial and viral pathogens have demonstrated value for patients with clinical symptoms consistent with CNS infection. RIDA®Plex syndromic testing panels detect bacteria which are likely to infect the CNS such as *Haemophilus influenzae*, *Streptococcus pneumoniae*, *Neisseria meningitidis*, *Listeria monocytogenes* or *Escherichia coli*.

PCR is widely used as the standard method for detecting viruses associated with aseptic meningitis or encephalitis especially for Enterovirus and Parechovirus. Depending on the age and immune status of the patient, there are many other viruses which can cause infection, including most common viruses such as Herpes Simplex Virus (HSV), Varicella Zoster Virus (VZV), Cytomegalovirus (CMV), Human Herpesvirus 6 (HHV-6), Epstein-Barr Virus (EBV), Enterovirus (EV), and human Parechovirus (HPeV).

RIDA®Plex CSF 16 well REF 27050 | IVD

RX
24

Bacteria

Haemophilus influenzae
Leptospira interrogans
Listeria monocytogenes

Mycobacterium tuberculosis
Neisseria meningitidis (2 Assays)
Streptococcus pneumoniae

Fungi

Cryptococcus gatti

Cryptococcus neoformans

Viruses

HSV-1 (Human herpesvirus 1)
HSV-2 (Human herpesvirus 2)
VZV (Human herpesvirus 3)

EBV (Human herpesvirus 4)
Enterovirus (Types A, B, C and D)
Parechovirus (Types 1 to 8)

RIDA®Plex Hepres, Enterovirus and Adenovirus 8 well REF 27091 | IVD

RX
24

Viruses

HSV-1 (Human herpesvirus 1)
HSV-2 (Human herpesvirus 2)
VZV (Human herpesvirus 3)

CMV (Human herpesvirus 5)
Human Adenovirus (Groups B, C and E)
Enterovirus (Types A, B, C and D)

RIDA®Plex Viral 8 well REF 27093 | IVD

RX
24

Viruses

Human Adenovirus (Groups B, C and E)
Enterovirus (Types A, B, C and D)
Parechovirus (Types 1 to 8)

HSV-1 (Human herpesvirus 1)
HSV-2 (Human herpesvirus 2)
VZV (Human herpesvirus 3)

RIDA®Plex Viral 12 well REF 27095 | IVD

RX
24

Viruses

HSV-1 (Human herpesvirus 1)
HSV-2 (Human herpesvirus 2)
VZV (Human herpesvirus 3)
EBV (Human herpesvirus 4)
CMV (Human herpesvirus 5)

HHV-6 (Human herpesvirus 6)
HHV-7 (Human herpesvirus 7)
Human Adenovirus (Groups B, C and E)
Enterovirus (Types A, B, C and D)
Parechovirus (Types 1 to 8)

RIDA®Plex CSF 12 well
REF 27601 | RUO

RX
24

Bacteria

<i>Escherichia coli</i>	<i>Neisseria meningitidis</i> (2 Assays)
<i>Haemophilus influenzae</i>	<i>Streptococcus agalactiae</i>
<i>Listeria monocytogenes</i>	<i>Streptococcus pneumoniae</i>

Fungi

<i>Cryptococcus gatti</i>	<i>Cryptococcus neoformans</i>
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Viruses

HSV-1 (Human herpesvirus 1)	VZV (Human herpesvirus 3)
HSV-2 (Human herpesvirus 2)	

RIDA®Plex CSF 24 well
REF 87024 | RUO

RX
24

Bacteria

<i>Escherichia coli</i>	<i>Neisseria meningitidis</i> (2 Assays)
<i>Haemophilus influenzae</i>	<i>Staphylococcus</i> spp.
<i>Kingella kingae</i>	<i>Staphylococcus aureus</i>
<i>Leptospira interrogans</i>	<i>Streptococcus agalactiae</i>
<i>Listeria monocytogenes</i>	<i>Streptococcus pneumoniae</i>
<i>Mycobacterium tuberculosis</i> complex	

Fungi

<i>Cryptococcus gatti</i>	<i>Cryptococcus neoformans</i>
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Resistance Genes

Methicillin resistance gene *mecA* in *S. aureus*

Viruses

HSV-1 (Human herpesvirus 1)	CMV (Human herpesvirus 5)
HSV-2 (Human herpesvirus 2)	HHV-6 (Human herpesvirus 6)
VZV (Human herpesvirus 3)	Enterovirus (Types A, B, C and D)
EBV (Human herpesvirus 4)	Parechovirus (Types 1 to 8)

RIDA®Plex Viral and Syphilis 12 well
REF 87095 | IVD

RX
24

Bacteria

Treponema pallidum

Viruses

HSV-1 (Human herpesvirus 1)	HHV-6 (Human herpesvirus 6)
HSV-2 (Human herpesvirus 2)	Human Adenovirus (Groups B, C and E)
VZV (Human herpesvirus 3)	Enterovirus (Types A, B, C and D)
EBV (Human herpesvirus 4)	Parechovirus (Types 1 to 8)
CMV (Human herpesvirus 5)	

Automation

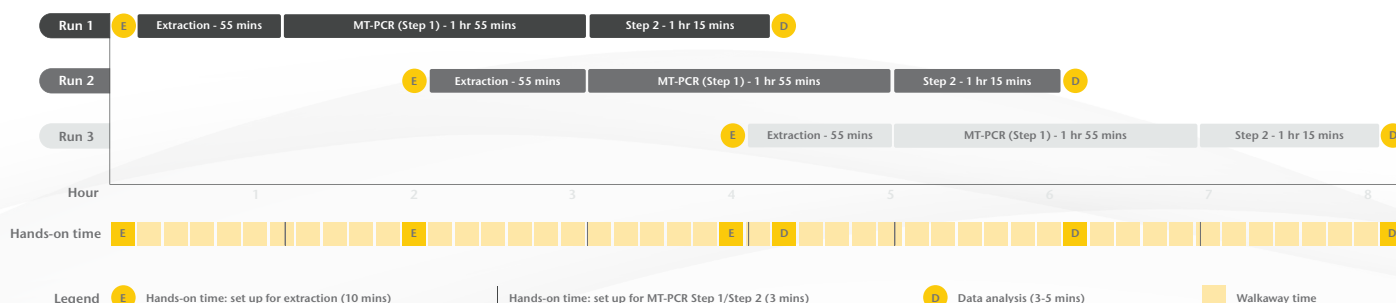
Diagnostic testing using RIDA®Plex panels is effortless with automation solutions for any workflow, ranging from low to high throughput and screening applications.

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).

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. 27050S)
2. RIDA®Plex Step 2 Plates (e.g. 27050P)
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
91081	RIDA®Plex Positive Control CSF	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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