

Respiratory Pathogens

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

Respiratory pathogens are difficult to distinguish due to overlapping clinical presentation. A multiplexed approach is advantageous in efficient symptomatic screening of common respiratory viruses, bacteria and fungi. Molecular methods are also ideal for genotyping of Influenza A and determination of SARS-CoV-2 lineages.

R-Biopharm Australia offers a flexible portfolio of respiratory RIDA®Plex panels designed to support low-, medium- and high-throughput testing environments, from smaller diagnostic laboratories to high-volume clinical and public health settings. Panel configurations range from targeted assays for routine respiratory screening to broad syndromic panels for comprehensive integration of complex or severe presentations.

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 multiple pathogens in a single specimen. This highly multiplexed approach supports comprehensive syndromic respiratory testing by identifying common and clinically significant agents, including influenza viruses, RSV, SARS-CoV-2 and atypical bacteria, in a single run, facilitating faster diagnosis and earlier, more targeted patient management.

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

Respiratory Pathogens RIDA®Plex Panels

Comprehensive Testing

The broadest panel for the detection of a wide range of pathogens that cause upper and lower respiratory tract infections.

RIDA®Plex Respiratory Viruses 16 well REF 20602 | IVD

RX
24

Viruses

Human Adenovirus (Groups B, C and E)	Influenza B (Lineages Yamagata and Victoria)
Human Bocavirus 1	Enterovirus (Types A, B, C and D)
Human Coronaviruses (Strains HKU1, 229E, OC43 and NL63)	Parainfluenza (Types 1, 2, 3 and 4)
Human Metapneumovirus (Types A and B)	Parechovirus (Types 1 to 8)
Influenza A (Subtypes H1, H3, H5 and H7)	Respiratory Syncytial Virus (Types A and B)
Influenza A Subtyping (Differentiates Subtypes H1 and H3)	Rhinovirus (Types A, B and C)
	SARS-CoV-2 (2 Assays)

RIDA®Plex Respiratory Pathogens B 16 well REF 20612 | IVD

RX
24

Bacteria

<i>Bordetella</i> spp.	<i>Legionella pneumophila</i>
<i>Bordetella parapertussis</i>	<i>Legionella longbeachae</i>
<i>Chlamydia pneumoniae</i>	<i>Mycoplasma pneumoniae</i>

Viruses

Human Adenovirus (Groups B, C and E)	Parainfluenza (Types 1, 2, 3 and 4)
Human Metapneumovirus (Types A and B)	Respiratory Syncytial Virus (Types A and B)
Enterovirus (Types A, B, C and D)	Rhinovirus (Types A, B and C)
Influenza A (Subtypes H1, H3, H5 and H7)	SARS-CoV-2 (2 Assays)
Influenza B (Lineages Yamagata and Victoria)	

RIDA®Plex Respiratory Pathogens C 16 well REF 20613 | IVD

RX
24

Bacteria

<i>Bordetella</i> spp.	<i>Legionella longbeachae</i>
<i>Bordetella parapertussis</i>	<i>Mycoplasma pneumoniae</i>
<i>Legionella pneumophila</i>	

Viruses

Human Adenovirus (Groups B, C, and E)	Enterovirus (Types A, B, C and D)
Human Metapneumovirus (Types A and B)	Parainfluenza (Types 1, 2, 3 and 4)
Influenza A (Subtypes H1, H3, H5 and H7)	Respiratory Syncytial Virus (Types A and B)
Influenza A Subtyping (Differentiates Subtypes H1 and H3)	Rhinovirus (Types A, B and C)
Influenza B (Lineages Yamagata and Victoria)	SARS-CoV-2 (2 Assays)

RIDA®Plex Upper Respiratory Pathogens 16 well REF 20616 | IVD

RX
24

Bacteria

<i>Bordetella</i> spp.	<i>Mycoplasma pneumoniae</i>
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Viruses

Human Adenovirus (Groups B, C and E)	Parainfluenza (Types 1, 2, 3 and 4)
Human Metapneumovirus (Types A and B)	Parechovirus (Types 1 to 8)
Enterovirus (Types A, B, C and D)	Respiratory Syncytial Virus (Types A and B)
Influenza A (Subtypes H1, H3, H5 and H7)	Rhinovirus (Types A, B and C)
Influenza A Subtyping (Differentiates Subtypes H1 and H3)	SARS-CoV-2 (2 Assays)
Influenza B (Lineages Yamagata and Victoria)	

RIDA®Plex Respiratory Pathogens 16 well
REF 20620 | IVD

RX
24

Bacteria

Bordetella spp.

Mycoplasma pneumoniae

Viruses

Human Adenovirus (Groups B, C and E)
Human Metapneumovirus (Types A and B)
Enterovirus (Types A, B, C and D)
Influenza A (Subtypes H1, H3, H5 and H7)
Influenza B (Lineages Yamagata and Victoria)

Parainfluenza (Types 1, 2, 3 and 4)
Parechovirus (Types 1 to 8)
Respiratory Syncytial Virus (Types A and B)
Rhinovirus (Types A, B and C)
SARS-CoV-2 (2 Assays)

RIDA®Plex Pneumonia 16 well
REF 20631 | IVD

RX
24

Bacteria

Bordetella spp.
Chlamydomphila pneumoniae
Chlamydomphila psittaci
Haemophilus influenzae
Legionella pneumophila
Legionella longbeachae

Mycobacterium tuberculosis complex
Mycoplasma pneumoniae
Staphylococcus aureus
Streptococcus pneumoniae
RUO: *Coxiella burnetii* (Q-Fever)

Fungi

Cryptococcus neoformans
Cryptococcus gattii

Pneumocystis jirovecii
RUO: *Aspergillus fumigatus*

RIDA®Plex Respiratory Pathogens 24 well
REF 80617 | IVD

RX
24

Bacteria

Bordetella spp.
Bordetella parapertussis
Bordetella pertussis
Mycoplasma pneumoniae

Chlamydomphila pneumoniae
Chlamydomphila psittaci
Legionella pneumophila
Legionella longbeachae

Fungi

Pneumocystis jirovecii

Viruses

Human Adenovirus (Groups B, C and E)
Human Coronaviruses (Strains HKU1, 229E, OC43 and NL63)
Human Metapneumovirus (Types A and B)
Influenza A (Subtypes H1, H3, H5 and H7)
Influenza A Subtyping (Differentiates Subtypes H1 and H3)
Influenza B (Lineages Yamagata and Victoria)

Enterovirus (Types A, B, C and D)
Parainfluenza (Types 1, 2, 3 and 4)
Parechovirus (Types 1 to 8)
Respiratory Syncytial Virus (Types A and B)
Rhinovirus (Types A, B and C)
SARS-CoV-2 (2 Assays)

RIDA®Plex Respiratory Pathogens 12 well
REF 80618 | IVD

RX
24

RJ
96

Bacteria

Bordetella spp.

Viruses

Human Adenovirus (Groups B, C and E)
Human Metapneumovirus (Types A and B)
Enterovirus (Types A, B, C and D)
Influenza A (Subtypes H1, H3, H5 and H7)
Influenza B (Lineages Yamagata and Victoria)

Parainfluenza (Types 1, 2, 3 and 4)
Respiratory Syncytial Virus (Types A and B)
Rhinovirus (Types A, B and C)
SARS-CoV-2 (Assays)

RIDA®Plex Pneumonia and Bordetella 12 well
REF 80633 | IVD

RX
24

RJ
96

Bacteria

Bordetella spp.
Bordetella parapertussis
Bordetella pertussis
Chlamydomphila pneumoniae
Chlamydomphila psittaci

Legionella pneumophila
Legionella longbeachae
Mycoplasma pneumoniae
Streptococcus pneumoniae

Fungi

Cryptococcus neoformans
Cryptococcus gattii

Pneumocystis jirovecii

Essential Targets

Tactical selection of respiratory targets for efficient screening of the 10 most common viruses and bacteria.

RIDA®Plex Atypical Pneumonia 8 well
REF 20632 | IVD

RX
24

Bacteria

Chlamydomphila pneumoniae
Chlamydomphila psittaci
Mycoplasma pneumoniae

Legionella pneumophila
Legionella longbeachae

Fungi

Cryptococcus neoformans
Cryptococcus gattii

Pneumocystis jirovecii

RIDA®Plex SARS-CoV-2, Influenza and RSV 8 well
REF 80081 | IVD

RX
24

RJ
96

Bacteria

Influenza A (Subtypes H1, H3, H5 and H7)
Influenza A Subtyping (Differentiates Subtypes H1 and H3)
Influenza B (Lineages Yamagata and Victoria)

Respiratory Syncytial Virus (Types A and B)
SARS-CoV-2 (3 Assays)

Automation

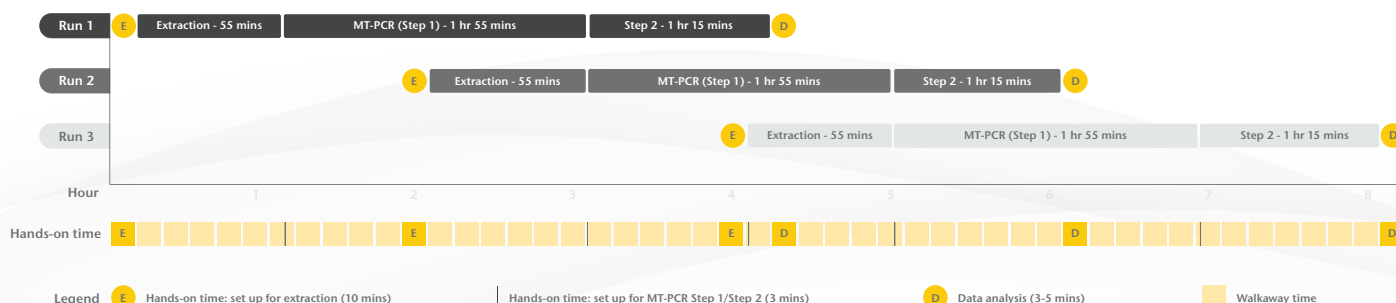
Diagnostic testing using RIDA®Plex panels is effortless with automation solutions for any workflow, ranging from low to high throughput and screening applications.

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.

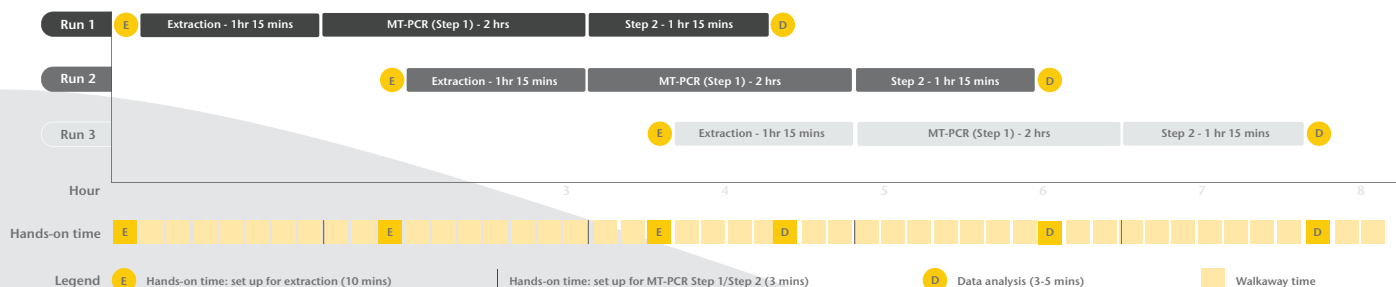
²Using RIDA®Xtract 24 Pathogen Kit. Approx. 35-minute rapid protocol, 55-minute standard protocol for up to 24 samples.

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.

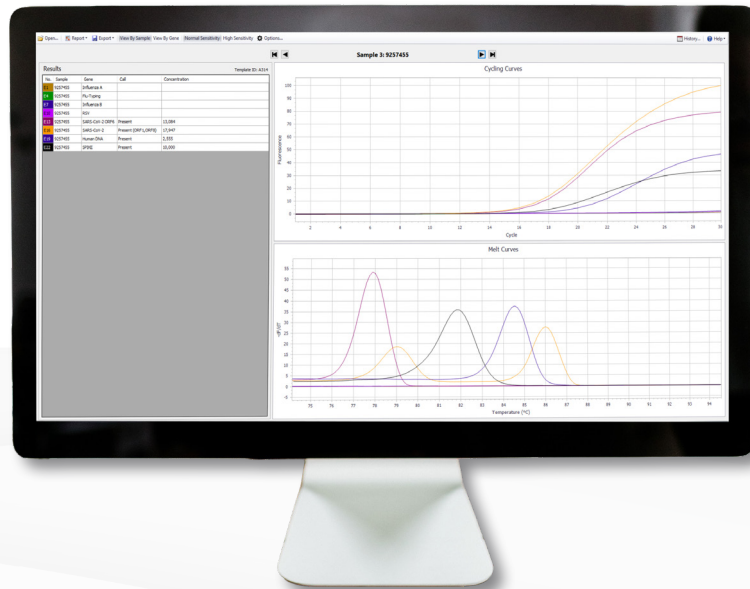


Figure 1: Sample results for RIDA®Plex SARS-CoV-2, Influenza & RSV 8 well panel (Ref 80081). Sample results are generated from positive controls.

Product Portfolio



RIDA®Plex



RIDA® Prep



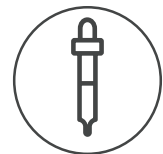
RIDA® PrepX



RIDA® Xtract 24



RIDA® Xtract 96

Automation
Systems

Dermatophytes



Gastrointestinal



Respiratory Pathogens



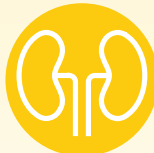
Hospital Care



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. 20602S)
2. RIDA®Plex Step 2 Plates (e.g. 20602P)
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
91011/91071	RIDA®Plex Positive Control Respiratory Pathogens/Pneumonia	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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