Bandit BIOSYSTEMS

The Power to Change Genomics

Product Catalog — Fall 2026

Bandit Biosystems makes assays and reagents for researchers that are rapid and informative, from analysis of respiratory pathogens to antibiotic resistance markers.

RESEARCH USE ONLY | NOT FOR USE IN DIAGNOSTIC PROCEDURES | NOT FDA CLEARED OR APPROVED | MADE IN THE USA



Product Overview

Bandit Biosystems offers multiplex qPCR and RT-qPCR panels for research across respiratory pathogens, women's health and sexually transmitted infections, urinary tract and wound microbiota, antibiotic resistance, emerging pathogens, veterinary targets and cannabis microbial targets, together with amplification master mixes, positive controls and custom assay design.

> **For Research Use Only.** Not for use in diagnostic procedures. Not cleared or approved by the FDA. Positive controls are included with each panel as listed on its page. Amplification master mix is sold separately, or with the panel as a complete kit. Volume and custom pricing on request.

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RESPIRATORY

Bandit Respiratory Panel A

RT-qPCR, qualitative multiplex — SARS-CoV-2, influenza A and influenza B in a single tube.

Targets

4 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, Cy5, ROX

Kit

1 tube · 200 reactions · Run time: less than 2 hours

Single-tube RT-qPCR multiplex detection of SARS-CoV-2, influenza A and influenza B. Positive controls for each target and the internal control are included at approximately 10,000 copies/µL.

Target	Dye
SARS-CoV-2 N1	FAM
Influenza A M1	Quasar 670 / Cy5
Influenza B NS2	HEX
Human RNase P (hRPP)	ROX

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500011 + 500028	200	Sign in
Panel only	500011	200	Sign in
Master mix only	500028	200	Sign in

Sample: RNA extracted from nasopharyngeal swab or sputum samples. Performance to be verified by the user. | **LoD:** SARS-CoV-2 8–16, influenza A 4–9, influenza B 16–33 copies/µL (swabs in UTM/VTM). | **Positive controls:** 1 tube, included | **Master mix:** SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 2400, PN 500028 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Formats:** Standard primer and probe mix (add master mix), or Ready-2-Test pre-mix | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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RESPIRATORY

Bandit Respiratory Panel B

RT-qPCR, qualitative multiplex — SARS-CoV-2, influenza A and B, and RSV in a single tube.

Targets

5 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, Cy5, Cy5.5, ROX

Kit

1 tube · 200 reactions · Run time: less than 2 hours

Single-tube RT-qPCR multiplex detection of SARS-CoV-2, influenza A, influenza B and respiratory syncytial virus. Formatted for five-channel instruments. For QuantStudio systems, use Respiratory Panel B QS.

Target	Dye
SARS-CoV-2 N1	FAM
Influenza A M1	Quasar 670 / Cy5
Influenza B NS2	HEX
RSV matrix	Quasar 705 / Cy5.5
Human RNase P (hRPP)	ROX

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500007 + 500028	200	Sign in
Panel only	500007	200	Sign in
Master mix only	500028	200	Sign in

Sample: RNA extracted from nasopharyngeal swab or sputum samples. Performance to be verified by the user. | **Positive controls:** 1 tube, included | **Master mix:** SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 2400, PN 500028 (sold separately) | **Instruments:** Bio-Rad CFX96 and CFX Opus | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.

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RESPIRATORY

Bandit Respiratory Panel B QS

RT-qPCR, qualitative multiplex — The four-target Respiratory Panel B, formatted for QuantStudio.

Targets

5 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, JOE/VIC, Cy5, TAMRA, ROX

Kit

1 tube · 200 reactions · Run time: less than 2 hours

Single-tube RT-qPCR multiplex detection of SARS-CoV-2, influenza A, influenza B and RSV, with dye chemistry built for the QuantStudio line of instruments.

Target	Dye
SARS-CoV-2 N1	FAM
Influenza A M1	Cy5
Influenza B NS2	JOE/VIC
RSV matrix	ROX
Human RNase P (hRPP)	TAMRA

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500009 + 500028	200	Sign in
Panel only	500009	200	Sign in
Master mix only	500028	200	Sign in

Sample: RNA extracted from nasopharyngeal swab or sputum samples. Performance to be verified by the user. | **Positive controls:** 1 tube, included | **Master mix:** SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 2400, PN 500028 (sold separately) | **Instruments:** Applied Biosystems QuantStudio 5, 6, 7 and 12 | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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RESPIRATORY

Bandit Respiratory Panel XL

RT-qPCR, qualitative multiplex — Respiratory viruses and bacteria, plus mecA and an internal control.

Targets

26 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, Cy5, ROX

Kit

7 tubes · 48 reactions of each of the 7 primer and probe mixes · Run time: less than 2 hours

Expanded RT-qPCR multiplex profiling of respiratory viruses and bacteria. RNA and DNA targets are detected from nasopharyngeal swab and sputum samples in seven tubes.

VIRUSES

- SARS-CoV-2
- Influenza A (pan)
- Influenza B
- RSV A and B
- Human metapneumovirus (HMPV)
- Parainfluenza 1–3
- Adenovirus
- Rhinovirus
- Enterovirus
- Enterovirus D68
- Coronavirus 229E
- Coronavirus HKU1
- Coronavirus NL63
- Coronavirus OC43

BACTERIA

- Bordetella pertussis
- Bordetella parapertussis
- Chlamydophila pneumoniae
- Mycoplasma pneumoniae
- Haemophilus influenzae
- Klebsiella pneumoniae
- Moraxella catarrhalis
- Staphylococcus aureus
- Streptococcus pneumoniae
- Streptococcus pyogenes

RESISTANCE GENE

- mecA

INTERNAL CONTROL

- Human RNase P (hRPP)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500004 + 500027	48	Sign in
Panel only	500004	48	Sign in
Master mix only	500027	48	Sign in

Sample: DNA and RNA extracted from nasopharyngeal swab or sputum samples. Performance to be verified by the user. | **Positive controls:** 5 tubes, included | **Master mix:** SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 3000, PN 500027 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Formats:** Standard primer and probe mix (add master mix), or Ready-2-Test pre-mix | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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RESPIRATORY

Bandit SARS-CoV-2 Panel A

RT-qPCR, qualitative multiplex — SARS-CoV-2 N1 and N2 targets with an internal control.

Targets
3 targets
Internal control: Human RNase P (hRPP)

Dye channels
FAM, HEX, ROX

Kit
1 tube · 200 reactions

Single-tube RT-qPCR multiplex detection of SARS-CoV-2 nucleic acid using CDC-recommended N1 and N2 target sequences, with a human internal control.

TARGETS
- SARS-CoV-2 N1
- SARS-CoV-2 N2

INTERNAL CONTROL
- Human RNase P (hRPP)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500010 + 500028	200	On request
Panel only	500010	200	On request
Master mix only	500028	200	Sign in

Sample: RNA extracted from nasopharyngeal swab or sputum samples. Performance to be verified by the user. | **Positive controls:** 1 tube, included | **Master mix:** SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 2400, PN 500028 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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RESPIRATORY

Enterovirus and D68 Panel

RT-qPCR, qualitative multiplex — Pan-enterovirus and enterovirus D68 in a single tube.

Targets
2 targets
Internal control: No internal control in this panel

Dye channels
FAM, Cy5

Kit
1 tube · 200 reactions · Run time: less than 2 hours

Single-tube RT-qPCR multiplex detection of enterovirus (FAM) and enterovirus D68 (Cy5). Positive controls for each target are included at approximately 10,000 copies/µL.

Target	Dye
Enterovirus	FAM
Enterovirus D68	Cy5

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500020 + 500028	200	Sign in
Panel only	500020	200	Sign in
Master mix only	500028	200	Sign in

Sample: RNA extracted from nasopharyngeal swab or sputum samples. Performance to be verified by the user. | **Positive controls:** 1 tube, included | **Master mix:** SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 2400, PN 500028 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Formats:** Standard primer and probe mix (add master mix), or Ready-2-Test pre-mix | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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WOMEN'S HEALTH AND STI

Amur CT-NG Panel

qPCR, qualitative multiplex — Chlamydia trachomatis and Neisseria gonorrhoeae in a single tube.

Targets

3 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, ROX

Kit

1 tube · 200 reactions · Run time: less than 60 minutes

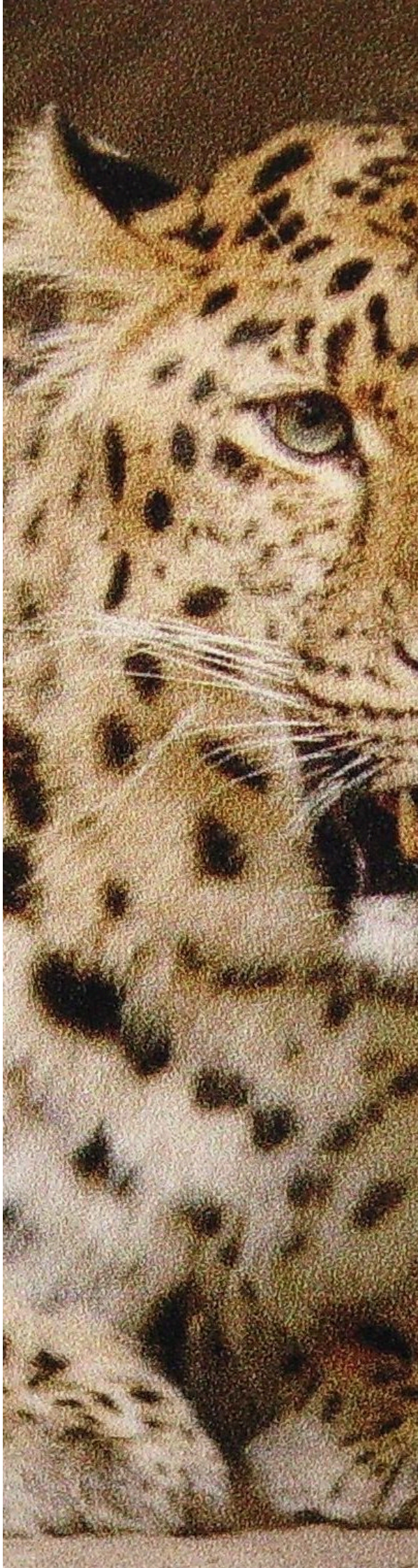
Single-tube multiplex detection of the two most common sexually transmitted bacterial pathogens. Positive controls for each target and the internal control are included at approximately 10,000 copies/µL.

Target	Dye
Neisseria gonorrhoeae	FAM
Chlamydia trachomatis	HEX
Human RNase P (hRPP)	ROX

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500035 + 500036	200	Sign in
Panel only	500035	200	Sign in
Master mix only	500036	200	Sign in

Sample: DNA extracted from swab or urine samples. Performance to be verified by the user. | **Reaction volume:** 15 µL, in 96- or 384-well plates | **Positive controls:** 1 tube, included | **Master mix:** SeqOnce™ qPCR Multiplex Amplification Kit 1800, PN 500036 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12K Flex, and 7500 / 7500 Fast; Thermo Fisher ViiA 7 | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Formats:** Standard primer and probe mix (add master mix), or Ready-2-Test pre-mix | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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WOMEN'S HEALTH AND STI

Amur HPV Mini Panel

qPCR, qualitative multiplex — HPV 16, 18 and 45 with a built-in human extraction control.

Targets

4 targets

Internal control: Human beta-globin (HBB)

Dye channels

FAM, HEX, Cy5, ROX

Kit

1 tube · 200 reactions · Run time: less than 60 minutes

Single-tube multiplex detection of three high-risk human papillomavirus types, HPV 16, 18 and 45, with a built-in human extraction control. Compatible with any high-quality viral DNA extraction method and a wide range of instruments.

TARGETS

- HPV 16
- HPV 18
- HPV 45

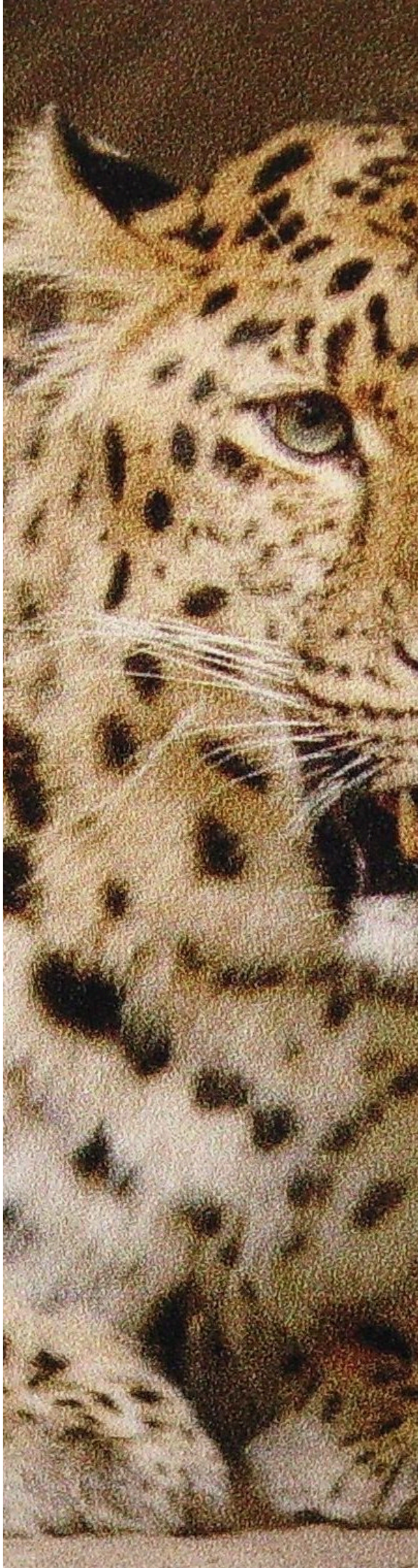
INTERNAL CONTROL

- Human beta-globin (HBB)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500026 + 500036	200	Sign in
Panel only	500026	200	Sign in
Master mix only	500036	200	Sign in

Sample: Viral DNA extracted from appropriate human samples. Performance to be verified by the user. | **Positive controls:** 1 tube, included | **Master mix:** SeqOnce™ qPCR Multiplex Amplification Kit 1800, PN 500036 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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WOMEN'S HEALTH AND STI

Amur ST Microbiota Panel A

qPCR, qualitative multiplex — 9 common sexually transmitted pathogens in three tubes.

Targets

10 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, Cy5, ROX

Kit

3 tubes · 48 reactions of each of the 3 primer and probe mixes · Run time: less than 60 minutes

Qualitative multiplex detection of nine common sexually transmitted pathogens. After nucleic acid extraction, targets are amplified by real-time PCR and detected by fluorescent probe.

TARGETS

- Chlamydia trachomatis
- Neisseria gonorrhoeae
- Trichomonas vaginalis
- Mycoplasma genitalium
- Treponema pallidum
- Haemophilus ducreyi
- Herpes simplex virus 1 (HSV-1)
- Herpes simplex virus 2 (HSV-2)
- Ureaplasma urealyticum

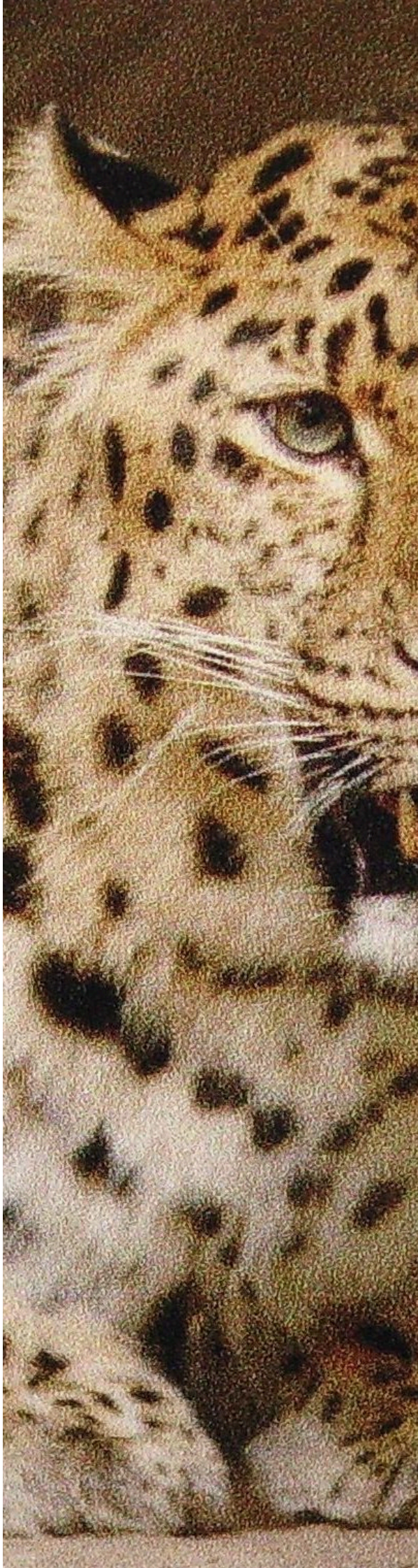
INTERNAL CONTROL

- Human RNase P (hRPP)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500000 + 500021	48	Sign in
Panel only	500000	48	Sign in
Master mix only	500021	48	Sign in

Sample: DNA extracted from urine or swab samples using a method that recovers bacterial, viral and fungal DNA. Performance to be verified by the user. | **Positive controls:** 2 tubes, included | **Master mix:** SeqOnce™ qPCR Multiplex Amplification Kit 1200, PN 500021 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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WOMEN'S HEALTH AND STI

Amur WH Vaginal Microbiota Panel A

qPCR, qualitative multiplex — 34 vaginal microbiota targets and 3 antibiotic resistance genes.

Targets

38 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, Cy5, ROX

Kit

10 tubes · 48 reactions of each of the 10 primer and probe mixes · Run time: less than 60 minutes

Qualitative multiplex detection of vaginal microbiota and selected antibiotic resistance genes. The panel covers sexually transmitted pathogens, common pathogenic yeasts, bacteria associated with vaginosis and normal Lactobacillus flora.

SEXUALLY TRANSMITTED PATHOGENS

- Chlamydia trachomatis
- Neisseria gonorrhoeae
- Trichomonas vaginalis
- Mycoplasma genitalium
- Treponema pallidum
- Haemophilus ducreyi
- Herpes simplex virus 1 (HSV-1)
- Herpes simplex virus 2 (HSV-2)
- Ureaplasma urealyticum

VAGINOSIS-ASSOCIATED AND OTHER BACTERIA

- Gardnerella vaginalis
- Atopobium vaginae
- BVAB2
- Megasphaera 1
- Megasphaera 2
- Mobiluncus curtisii
- Mobiluncus mulieris
- Prevotella bivia
- Mycoplasma hominis
- Bacteroides fragilis
- Group B Streptococcus
- Escherichia coli
- Enterococcus faecalis
- Staphylococcus aureus

LACTOBACILLUS FLORA

- Lactobacillus crispatus
- Lactobacillus gasseri
- Lactobacillus iners
- Lactobacillus jensenii

YEASTS

- Candida albicans
- Candida auris
- Candida glabrata
- Candida krusei
- Candida lusitaniae
- Candida parapsilosis
- Candida tropicalis

RESISTANCE GENES

- mecA (methicillin)
- vanA (vancomycin)
- vanB (vancomycin)

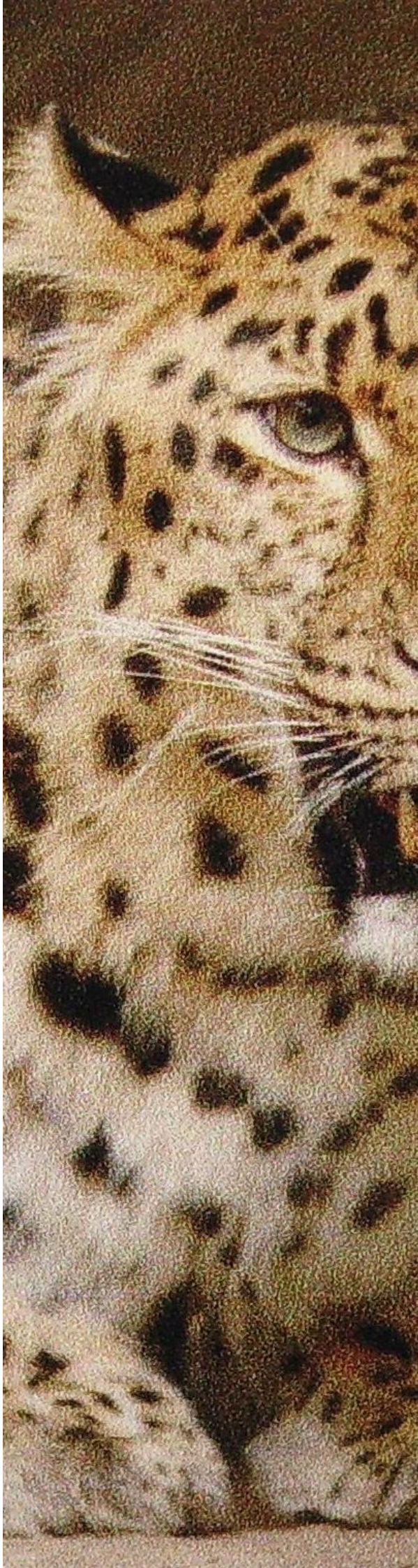
INTERNAL CONTROL

- Human RNase P (hRPP)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500001 + 500024	48	Sign in
Panel only	500001	48	Sign in
Master mix only	500024	48	Sign in

Sample: DNA extracted from urine or swab samples using a method that recovers and fungal DNA. Performance to be verified by the user. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** 4 tubes, included | **Master mix:** SeqOnce™ qPCR Multiplex Amplification Kit 3600, PN 500024 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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WOMEN'S HEALTH AND STI

Women's Health Panel C Ready-2-Test

qPCR, qualitative multiplex — 14 STI, mycoplasma, vaginal flora and yeast targets plus 18 antibiotic resistance genes and an internal control, ready to run.

Targets

33 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, Cy5, ROX

Kit

8 tubes (Ready-2-Test pre-mix) · 48 reactions of each of the 8 primer and probe mixes

Ready-2-Test multiplex qPCR kit for sexually transmitted pathogens, mycoplasmas and ureaplasmas, vaginal flora, Candida species and 18 antibiotic resistance genes. The panel runs as 8 multiplex reactions using hydrolysis-probe chemistry across FAM, HEX, Cy5 and ROX. Each kit includes master mix, primers, probes and buffers, so the only thing you add is extracted sample. A human RNase P internal control is included in the plexes where indicated.

SEXUALLY TRANSMITTED PATHOGENS
- Neisseria gonorrhoeae
- Chlamydia trachomatis
- Trichomonas vaginalis
- Mycoplasma genitalium

MYCOPLASMA AND UREAPLASMA
- Mycoplasma hominis
- Ureaplasma urealyticum
- Ureaplasma parvum

VAGINAL FLORA
- Gardnerella vaginalis
- Lactobacillus crispatus
- Lactobacillus jensenii

YEASTS
- Candida albicans
- Candida tropicalis
- Candida glabrata
- Candida parapsilosis

MACROLIDE RESISTANCE
- ermA
- ermB
- ermC

METHICILLIN RESISTANCE
- mecA

FLUOROQUINOLONE RESISTANCE
- qnrA
- qnrB

ESBL GENES
- SHV
- CTX-M Group 1
- CTX-M Group 2
- CTX-M Group 9

TRIMETHOPRIM RESISTANCE
- dfrA1
- dfrA5

CARBAPENEM RESISTANCE
- OXA-48 (blaOXA)
- KPC (blaKPC)

OTHER RESISTANCE GENES
- ampC
- tet(M)
- sul1
- sul2

INTERNAL CONTROL
- Human RNase P (hRPP)

Specifications & Ordering

Option	SKU	Reactions	Price
Individual positive controls	500059	48	On request
Super Control	500058	48	On request

Sample: 4 µL of extracted sample per 15 µL reaction (11 µL Ready-2-Test pre-mix plus 4 µL sample). Performance to be verified by the laboratory. | **Reaction volume:** 15 µL (11 µL pre-mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** Two kit options: 4 individual positive controls (PN 450045, 450047, 450052 and 450053) with kit 500059, or a single Super Control covering all targets in one tube (PN 450054) with kit 500058 | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C. Pre-mixes may be thawed and refrozen up to 3 times. | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Formats:** Ready-2-Test pre-mix only | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.

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WOMEN'S HEALTH AND STI

Group B Strep Panel

qPCR, single-plex — Single-target qPCR assay for Group B Streptococcus (Streptococcus agalactiae).

Targets
1 target

Dye channels
See product information sheet

Kit
1 tube · 200 reactions

Single-plex qPCR assay for the detection of Group B Streptococcus (Streptococcus agalactiae). Dye channel, control, master mix and run details will be in the product information sheet. Contact us for details in the meantime.

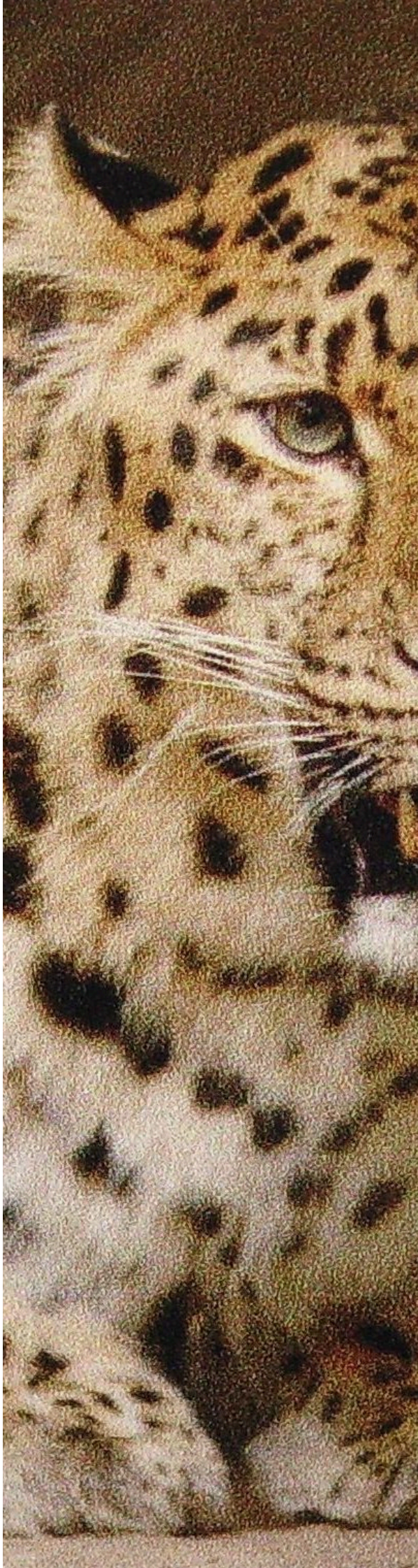
TARGET

- Streptococcus agalactiae (Group B)

Specifications & Ordering

Option	SKU	Reactions	Price
Panel	500013	200	Sign in

Storage: −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order. | **Dye channel, controls, master mix and instruments:** in the product information sheet (coming soon)



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URINARY TRACT

Lioness UT Microbiota Panel A

qPCR, qualitative multiplex — 20 bacterial species and 4 yeasts common in the urinary tract.

Targets

25 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, Cy5, ROX

Kit

8 tubes · 48 reactions of each of the 8 primer and probe mixes · Run time: approximately 60 minutes

Qualitative multiplex detection of the 20 most common bacterial species and 4 yeast species associated with urinary tract infection. Run it with the Pongo Antibiotic Resistance Panel A on the same extract for a combined pathogen and resistance profile.

BACTERIA

- Escherichia coli
- Klebsiella pneumoniae
- Klebsiella oxytoca
- Klebsiella aerogenes
- Proteus mirabilis
- Proteus vulgaris
- Pseudomonas aeruginosa
- Acinetobacter baumannii
- Enterobacter cloacae
- Citrobacter freundii
- Morganella morganii
- Providencia stuartii
- Serratia marcescens
- Enterococcus faecalis
- Enterococcus faecium
- Staphylococcus aureus
- Staphylococcus saprophyticus
- Streptococcus agalactiae (Group B)
- Mycoplasma hominis
- Ureaplasma urealyticum

YEASTS

- Candida albicans
- Candida glabrata
- Candida parapsilosis
- Candida tropicalis

INTERNAL CONTROL

- Human RNase P (hRPP)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500012 + 500023	48	Sign in
Panel only	500012	48	Sign in
Master mix only	500023	48	Sign in

Sample: DNA extracted from urine or swab samples using a method that recovers bacterial, viral and fungal DNA. Performance to be verified by the user. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** 3 tubes, included | **Master mix:** SeqOnce™ qPCR Multiplex Amplification Kit 3000, PN 500023 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Formats:** Standard primer and probe mix (add master mix), or Ready-2-Test pre-mix | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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URINARY TRACT · COMBO PANEL

Lioness+ UTI/ABR Combo Panel

qPCR, qualitative multiplex — Lioness UT Microbiota Panel A and Pongo Antibiotic Resistance Panel A in one kit: urinary tract pathogens and 24 resistance genes from one extract.

Targets

49 targets

Internal control: Human RNase P (hRPP), in the Lioness tubes

Dye channels

FAM, HEX, Cy5, ROX

Kit

14 tubes · 48 reactions of each of the 14 primer and probe mixes · Run time: approximately 60 minutes

The Lioness+ UTI/ABR Combo Panel pairs the Lioness UT Microbiota Panel A (20 bacterial species, 4 yeasts and an internal control) with the Pongo Antibiotic Resistance Panel A (24 resistance genes). Both panels run on the same extracted DNA with the same cycling, so labs get urinary tract pathogen and resistance results from one extraction and one run.

Includes the full Lioness UT Microbiota Panel A and Pongo Antibiotic Resistance Panel A, with positive controls for each.

LIONESS: BACTERIA

- Escherichia coli
- Klebsiella pneumoniae
- Klebsiella oxytoca
- Klebsiella aerogenes
- Proteus mirabilis
- Proteus vulgaris
- Pseudomonas aeruginosa
- Acinetobacter baumannii
- Enterobacter cloacae
- Citrobacter freundii
- Morganella morganii
- Providencia stuartii
- Serratia marcescens
- Enterococcus faecalis
- Enterococcus faecium
- Staphylococcus aureus
- Staphylococcus saprophyticus
- Streptococcus agalactiae (Group B)
- Mycoplasma hominis
- Ureaplasma urealyticum

LIONESS: YEASTS

- Candida albicans
- Candida glabrata
- Candida parapsilosis
- Candida tropicalis

LIONESS: INTERNAL CONTROL

- Human RNase P (hRPP)

PONGO: BETA-LACTAMASES AND CARBAPENEMASES

- KPC (blaKPC)
- NDM-1
- OXA-48 (blaOXA)
- VIM (blaVIM)
- IMP-7 (blaIMP)
- CTX-M Group 1
- CTX-M Group 2
- CTX-M Group 9
- SHV
- TEM
- ACT
- ampC
- FOX

PONGO: OTHER RESISTANCE GENES

- mecA
- vanA
- vanB
- qnrA
- qnrB
- qnrS
- ermA
- ermB
- sul1
- sul2
- tet(A)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (both panels + both master mixes)	500060 + 500023 + 500022	48	Sign in
Panels only	500060	48	Sign in
Master mixes only	500023 + 500022	48	Sign in

Panels included: Lioness UT Microbiota Panel A and Pongo Antibiotic Resistance Panel extracted from urine or swab samples using a method that recovers bacterial, viral and fungal DNA. Performance to be verified by the user. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** 6 tubes, included (3 per panel) | **Master mix:** SeqOnce™ qPCR Multiplex Amplification Kit 3000, PN 500023, and SeqOnce™ qPCR Multiplex Amplification Kit 2400, PN 500022. (included with the complete kit) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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WOUND AND ANTIBIOTIC RESISTANCE

Glyphis Wound Panel A

qPCR, qualitative multiplex — 30 aerobic, anaerobic and yeast targets found in infected wounds.

Targets

31 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, Cy5, ROX

Kit

9 tubes · 48 reactions of each of the 9 primer and probe mixes · Run time: less than 60 minutes

Qualitative multiplex detection of microbes found in infected wounds, including yeasts and both aerobic and anaerobic bacteria. It gives rapid insight into organisms that are slow or difficult to culture. Pair it with the Pongo Antibiotic Resistance Panel A on the same extract.

AEROBIC AND FACULTATIVE BACTERIA

- Acinetobacter baumannii
- Citrobacter freundii
- Enterobacter cloacae
- Enterobacter (Klebsiella) aerogenes
- Enterococcus faecalis
- Enterococcus faecium
- Escherichia coli
- Kingella kingae
- Klebsiella oxytoca
- Klebsiella pneumoniae
- Morganella morganii
- Proteus mirabilis
- Proteus vulgaris
- Pseudomonas aeruginosa
- Serratia marcescens
- Staphylococcus aureus
- Staphylococcus saprophyticus
- Streptococcus agalactiae
- Streptococcus pyogenes (Group A)

ANAEROBES

- Bacteroides fragilis
- Clostridium novyi
- Clostridium perfringens
- Clostridium septicum

YEASTS

- Candida albicans
- Candida auris
- Candida glabrata
- Candida krusei
- Candida lusitaniae
- Candida parapsilosis
- Candida tropicalis

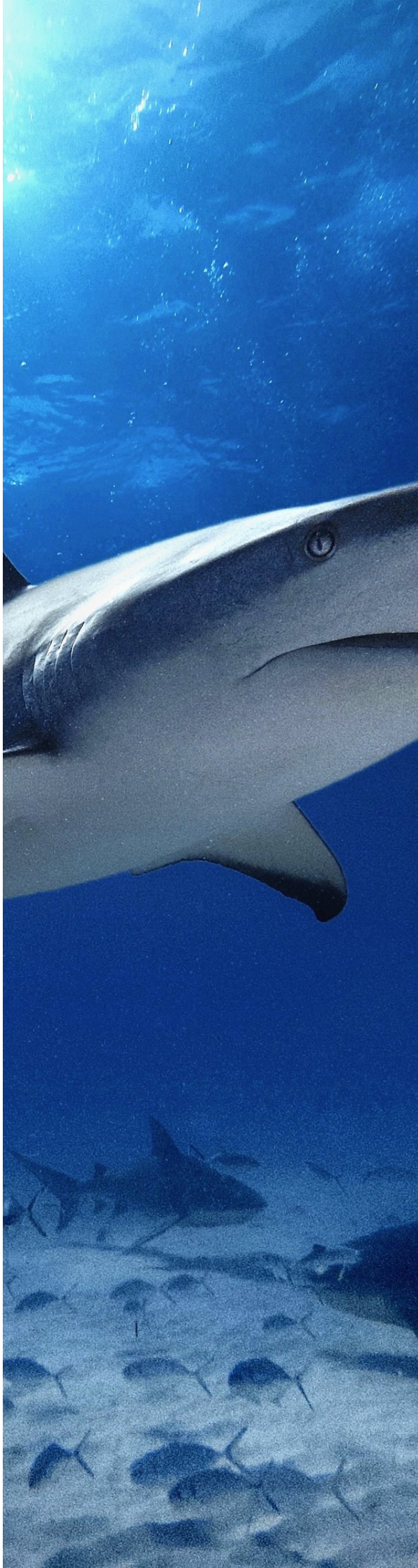
INTERNAL CONTROL

- Human RNase P (hRPP)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500002 + 500024	48	Sign in
Panel only	500002	48	Sign in
Master mix only	500024	48	Sign in

Sample: DNA extracted from swab samples using a method that recovers fungal DNA. Performance to be verified by the user. | **Reaction volume:** 15 µL, in 96- or 384-well plates | **Positive controls:** 4 tubes, included | **Master mix:** SeqOnce™ qPCR Multiplex Amplification Kit 3600, PN 500024 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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WOUND AND ANTIBIOTIC RESISTANCE

Pongo Antibiotic Resistance Panel A

qPCR, qualitative multiplex — 24 antibiotic resistance genes, run on the same extract as your pathogen panel.

Targets

24 targets

Internal control: No internal control in this panel

Dye channels

FAM, HEX, Cy5, ROX

Kit

6 tubes · 48 reactions of each of the 6 primer and probe mixes · Run time: approximately 60 minutes

Qualitative multiplex detection of antibiotic resistance genes found in bacteria. It is designed to run on the same extracted sample as the Glyphis Wound and Lioness UT panels, so labs get pathogen and resistance results from one extraction.

BETA-LACTAMASES AND CARBAPENEMASES

- KPC (blaKPC)
- NDM-1
- OXA-48 (blaOXA)
- VIM (blaVIM)
- IMP-7 (blaIMP)
- CTX-M Group 1
- CTX-M Group 2
- CTX-M Group 9
- SHV
- TEM
- ACT
- ampC
- FOX

OTHER RESISTANCE GENES

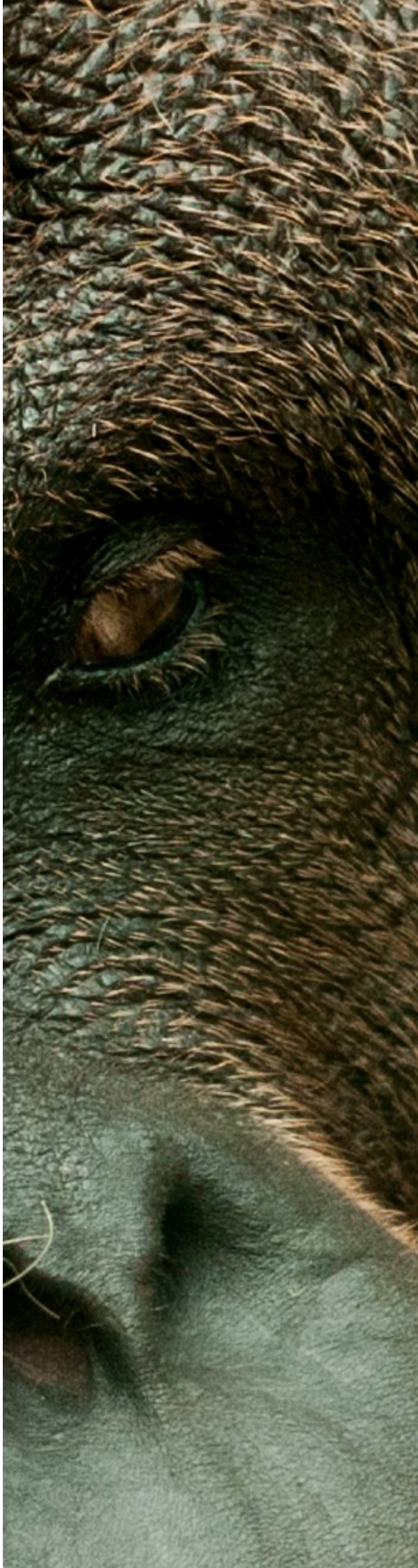
- mecA
- vanA
- vanB
- qnrA
- qnrB
- qnrS
- ermA
- ermB
- sul1
- sul2
- tet(A)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500003 + 500022	48	Sign in
Panel only	500003	48	Sign in
Master mix only	500022	48	Sign in

Sample: DNA extracted from bacterial samples. Performance to be verified by the user. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** 3 tubes, included | **Master mix:** SeqOnce™ qPCR Multiplex Amplification Kit 2400, PN 500022 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Formats:** Standard primer and probe mix (add master mix), or Ready-2-Test pre-mix | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.

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WOUND AND ANTIBIOTIC RESISTANCE · COMBO PANEL

Glyphis+ Wound/ABR Combo Panel

qPCR, qualitative multiplex — Glyphis Wound Panel A and Pongo Antibiotic Resistance Panel A in one kit: wound pathogens and 24 resistance genes from one extract.

Targets

55 targets

Internal control: Human RNase P (hRPP), in the Glyphis tubes

Dye channels

FAM, HEX, Cy5, ROX

Kit

15 tubes · 48 reactions of each of the 15 primer and probe mixes · Run time: less than 60 minutes (Glyphis); approximately 60 minutes (Pongo)

The Glyphis+ Wound/ABR Combo Panel pairs the Glyphis Wound Panel A (aerobic, anaerobic and yeast targets plus an internal control) with the Pongo Antibiotic Resistance Panel A (24 resistance genes). Both panels run on the same extracted DNA, so labs get wound pathogen and resistance results from one extraction.

Includes the full Glyphis Wound Panel A and Pongo Antibiotic Resistance Panel A, with positive controls for each.

GLYPHIS: AEROBIC AND FACULTATIVE BACTERIA

- Acinetobacter baumannii
- Citrobacter freundii
- Enterobacter cloacae
- Enterobacter (Klebsiella) aerogenes
- Enterococcus faecalis
- Enterococcus faecium
- Escherichia coli
- Kingella kingae
- Klebsiella oxytoca
- Klebsiella pneumoniae
- Morganella morganii
- Proteus mirabilis
- Proteus vulgaris
- Pseudomonas aeruginosa
- Serratia marcescens
- Staphylococcus aureus
- Staphylococcus saprophyticus
- Streptococcus agalactiae
- Streptococcus pyogenes (Group A)

GLYPHIS: ANAEROBES

- Bacteroides fragilis
- Clostridium novyi
- Clostridium perfringens
- Clostridium septicum

GLYPHIS: YEASTS

- Candida albicans
- Candida auris
- Candida glabrata
- Candida krusei
- Candida lusitaniae
- Candida parapsilosis
- Candida tropicalis

GLYPHIS: INTERNAL CONTROL

- Human RNase P (hRPP)

PONGO: BETA-LACTAMASES AND CARBAPENEMASES

- KPC (blaKPC)
- NDM-1
- OXA-48 (blaOXA)
- VIM (blaVIM)
- IMP-7 (blaIMP)
- CTX-M Group 1
- CTX-M Group 2
- CTX-M Group 9
- SHV
- TEM
- ACT
- ampC
- FOX

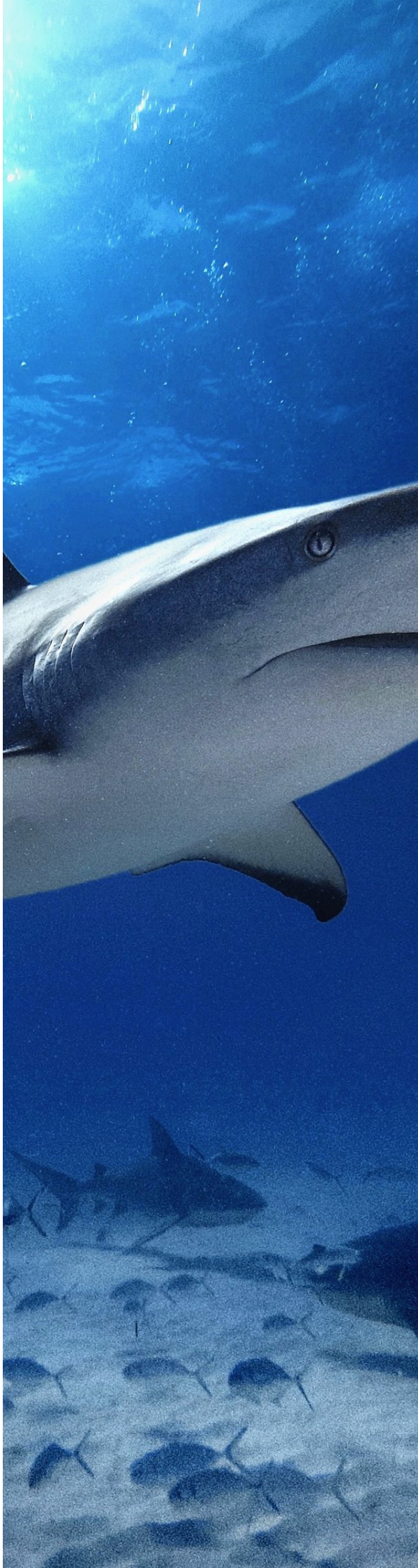
PONGO: OTHER RESISTANCE GENES

- mecA
- vanA
- vanB
- qnrA
- qnrB
- qnrS
- ermA
- ermB
- sul1
- sul2
- tet(A)

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (both panels + both master mixes)	500061 + 500024 + 500022	48	Sign in
Panels only	500061	48	Sign in
Master mixes only	500024 + 500022	48	Sign in

Panels included: Glyphis Wound Panel A and Pongo Antibiotic Resistance Panel A | **Sample:** from swab samples using a method that recovers bacterial and fungal DNA. Performance to be verified by the user. | **Reaction volume:** 15 µL, in 96- or 384-well plates | **Positive controls:** 7 tubes, included (4 Glyphis, 3 Pongo) | **Master mix:** SeqOnce™ qPCR Multiplex Amplification Kit 3600, PN 500024, and SeqOnce™ qPCR Multiplex Amplification Kit 2400, PN 500022. (included with the complete kit) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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EMERGING PATHOGENS

Measles Panel A

RT-qPCR, qualitative multiplex — Measles virus, including the D8 genotype, in a single tube.

Targets

2 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, ROX

Kit

1 tube · 200 reactions · Run time: less than 60 minutes

Single-tube RT-qPCR detection of measles virus (Morbillivirus hominis). The assay is formulated to detect the D8 genotype seen in recent U.S. outbreaks and all known circulating strains. Positive controls are included at approximately 10,000 copies/µL.

Target	Dye
Measles virus (D8 genotype and circulating strains)	FAM
Human RNase P (hRPP)	ROX

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500039 + 500030	200	Sign in
Panel only	500039	200	Sign in
Master mix only	500030	200	Sign in

Sample: RNA extracted from nasopharyngeal swab or sputum samples. Performance to be verified by the user. | **Positive controls:** 1 tube, included | **Master mix:** SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 1800, PN 500030 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Formats:** Standard primer and probe mix (add master mix), or Ready-2-Test pre-mix | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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EMERGING PATHOGENS

H5N1 Avian Influenza Panel

RT-qPCR, qualitative multiplex — H5 and pan-influenza A, with a multi-species control for human and animal samples.

Targets

3 targets

Internal control: Multi-species control (ROX)

Dye channels

FAM, HEX, ROX

Kit

1 tube · 200 reactions · Run time: less than 60 minutes

Single-tube RT-qPCR assay for the H5 hemagglutinin gene and the influenza A M1 gene. The H5 assay is designed to detect all known clades and variants of highly pathogenic avian influenza A/H5N1, including recent human strains. The influenza A assay targets a highly conserved region of M1 shared by known H and N subtypes. A proprietary multi-species internal control detects nucleic acid from most higher vertebrates, including human, bovine and avian samples.

Target	Dye
H5 gene	FAM
Influenza A M1	HEX
SPRY1 multi-species internal control	ROX

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500029 + 500030	200	Sign in
Panel only	500029	200	Sign in
Master mix only	500030	200	Sign in

Sample: 4 µL of eluate from any extraction method that produces high-quality DNA and RNA from the chosen sample type. Performance to be verified and validated by the laboratory. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** 1 tube, included | **Master mix:** SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 1800, PN 500030 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Formats:** Standard primer and probe mix (add master mix), or Ready-2-Test pre-mix | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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EMERGING PATHOGENS · MADE TO ORDER

Mpox Panel A

qPCR, qualitative multiplex — Monkeypox virus (MPXV) generic, clade II and B6R targets with an internal control, in a single tube. Made to order.

Targets

4 targets

Internal control: Human RNase P (hRPP)

Dye channels

FAM, HEX, Cy5, ROX

Kit

1 tube · Made to order.

Single-tube multiplex qPCR assay for monkeypox virus (MPXV) research. It detects a generic MPXV target, a clade II-specific target and the B6R gene, with a human RNase P internal control. The panel is made to order; contact us for pricing, kit size and lead time.

The positive control is synthetic, non-infectious DNA. The kit contains no viral material.

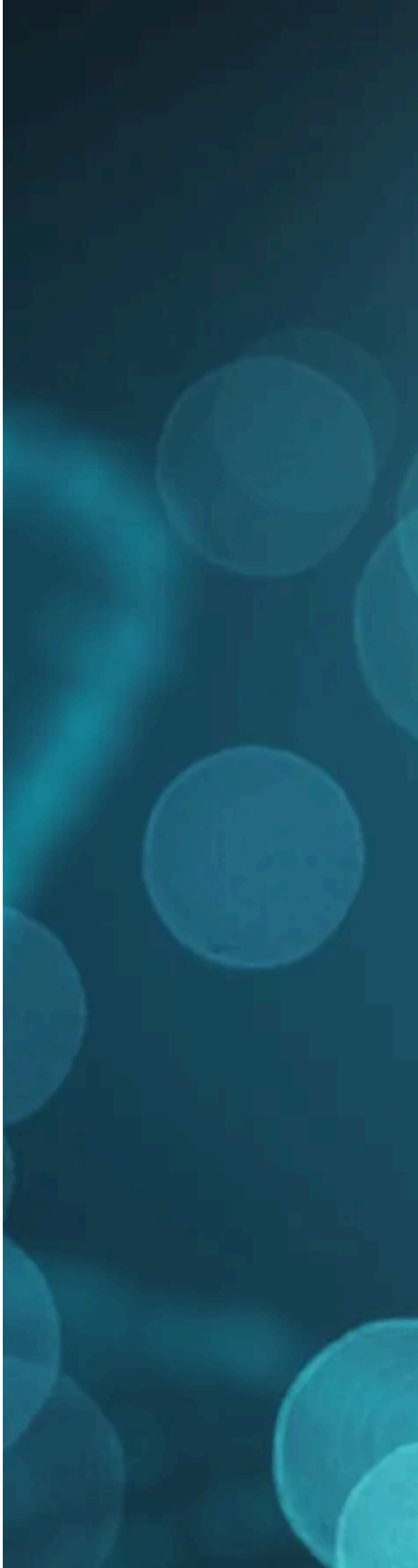
Target	Dye
MPXV generic (G2R)	FAM
MPXV clade II (G2R, West African)	HEX
MPXV B6R	Cy5
Human RNase P (hRPP)	ROX

Specifications & Ordering

Option	SKU	Reactions	Price
Panel (made to order)	500062	Made to order	On request

Sample: Extracted DNA. Performance to be verified by the user. | **Positive controls:** Synthetic, non-infectious DNA | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.

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VETERINARY

Canine Enteric Pathogen qPCR Panel

RT-qPCR, qualitative multiplex — 13 bacterial, parasitic and viral targets associated with canine enteric infection and diarrhea.

Targets

14 targets

Internal control: SPRY1 multi-species control

Dye channels

FAM, HEX, Cy5, ROX

Kit

4 tubes · 100 reactions of each of the 4 primer and probe mixes

Qualitative multiplex RT-qPCR detection of 13 canine enteric targets across bacteria, parasites and viruses in four tubes. When paired with appropriate sampling and extraction methods, the panel is suitable for specimens from veterinary sources. The SPRY1 multi-species internal control monitors extraction and PCR inhibition.

BACTERIA

- Clostridium difficile toxin A/B
- Clostridium perfringens enterotoxin (CPE)
- Clostridium perfringens alpha toxin (CPA)
- Clostridium perfringens NetE/NetF
- Salmonella spp.
- Campylobacter (jejuni and coli)
- Lawsonia intracellularis

PARASITES

- Cryptosporidium spp.
- Giardia spp.

VIRUSES

- Canine circovirus
- Canine distemper virus
- Canine enteric coronavirus
- Canine parvovirus

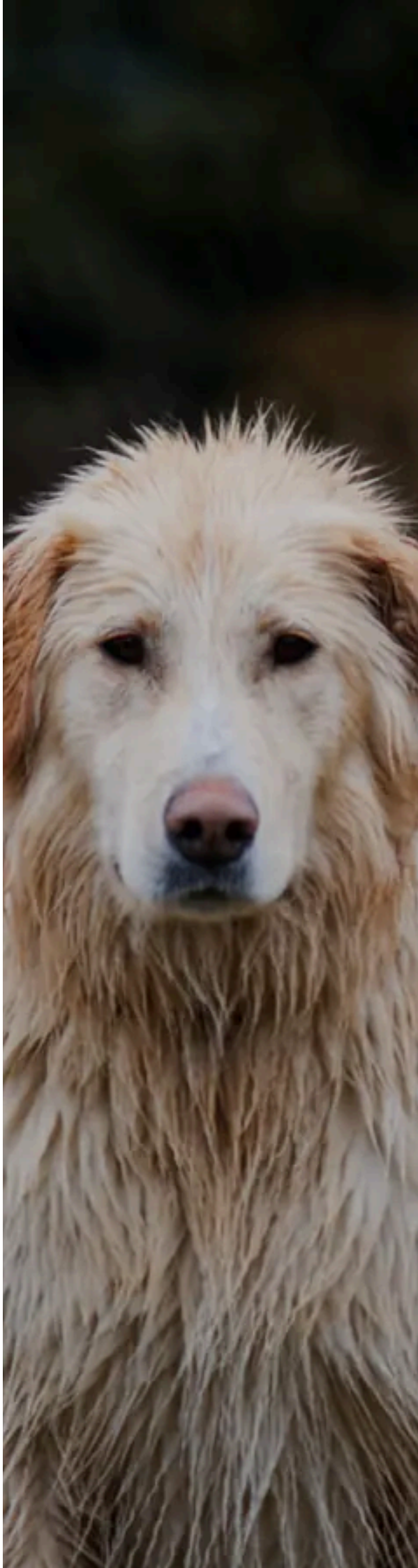
INTERNAL CONTROL

- SPRY1 multi-species control

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500053 + 500055	100	On request
Panel only	500053	100	On request
Master mix only	500055	100	On request

Sample: Extracted DNA and RNA from specimens from veterinary sources, using a validated extraction method. Performance to be verified by the user. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** Veterinary Enteric Pathogen Positive Control, mixed (PN 450051) or three individual tubes (PN 450055, 450056, 450057), included | **Master mix:** Bandit Biosystems RT-qPCR Multiplex Amplification Kit 3000, PN 500055 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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VETERINARY

Canine Respiratory XL qPCR Panel

RT-qPCR, qualitative multiplex — 11 bacterial and viral targets associated with canine respiratory infection.

Targets

12 targets

Internal control: SPRY1 multi-species control

Dye channels

FAM, HEX, Cy5, ROX

Kit

3 tubes · 100 reactions of each of the 3 primer and probe mixes

Qualitative multiplex RT-qPCR detection of 11 canine respiratory targets, including canine influenza H3N2, in three tubes. When paired with appropriate sampling and extraction methods, the panel is suitable for specimens from veterinary sources. The SPRY1 multi-species internal control monitors extraction and PCR inhibition.

BACTERIA

- Bordetella bronchiseptica
- Mycoplasma cynos
- Streptococcus equi

VIRUSES

- Canine adenovirus 2
- Canine distemper virus
- Canine herpesvirus 1 (CHV-1)
- Canine parainfluenza virus
- Canine pneumovirus
- Canine respiratory coronavirus (CRCoV)
- Influenza A H3N2
- Influenza A (pan influenza)

INTERNAL CONTROL

- SPRY1 multi-species control

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500043 + 500044	100	On request
Panel only	500043	100	On request
Master mix only	500044	100	On request

Sample: Extracted DNA and RNA from specimens from veterinary sources, using a validated extraction method. Performance to be verified by the user. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** Canine Respiratory XL Positive Control, combined (PN 450043) or individual DNA and RNA tubes (PN 450059, 450058), included | **Master mix:** Bandit Biosystems RT-qPCR Multiplex Amplification Kit 2250, PN 500044 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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VETERINARY

Feline Enteric Pathogen qPCR Panel

RT-qPCR, qualitative multiplex — 11 bacterial, parasitic and viral targets associated with feline enteric infection and diarrhea.

Targets

12 targets

Internal control: SPRY1 multi-species control

Dye channels

FAM, HEX, Cy5, ROX

Kit

3 tubes · 100 reactions of each of the 3 primer and probe mixes

Qualitative multiplex RT-qPCR detection of 11 feline enteric targets across bacteria, parasites and viruses in three tubes. When paired with appropriate sampling and extraction methods, the panel is suitable for specimens from veterinary sources. The SPRY1 multi-species internal control monitors extraction and PCR inhibition.

BACTERIA

- Clostridium difficile toxin A/B
- Clostridium perfringens enterotoxin (CPE)
- Clostridium perfringens alpha toxin (CPA)
- Salmonella spp.
- Campylobacter (jejuni and coli)

PARASITES

- Cryptosporidium spp.
- Giardia spp.
- Tritrichomonas foetus / T. blagburni
- Toxoplasma gondii

VIRUSES

- Feline enteric coronavirus
- Feline parvovirus 2 (FPV)

INTERNAL CONTROL

- SPRY1 multi-species control

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500054 + 500044	100	On request
Panel only	500054	100	On request
Master mix only	500044	100	On request

Sample: Extracted DNA and RNA from specimens from veterinary sources, using a validated extraction method. Performance to be verified by the user. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** Veterinary Enteric Pathogen Positive Control, mixed (PN 450051) or individual tubes (PN 450055, 450056, 450057), included | **Master mix:** Bandit Biosystems RT-qPCR Multiplex Amplification Kit 2250, PN 500044 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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VETERINARY

Feline Respiratory XL qPCR Panel

RT-qPCR, qualitative multiplex — 6 bacterial and viral targets associated with feline respiratory infection.

Targets

7 targets

Internal control: SPRY1 multi-species control

Dye channels

FAM, HEX, Cy5, ROX

Kit

2 tubes · 100 reactions of each of the 2 primer and probe mixes

Qualitative multiplex RT-qPCR detection of six feline respiratory targets in two tubes. When paired with appropriate sampling and extraction methods, the panel is suitable for specimens from veterinary sources. The SPRY1 multi-species internal control monitors extraction and PCR inhibition.

BACTERIA

- Bordetella bronchiseptica
- Chlamydophila felis
- Mycoplasma felis

VIRUSES

- Feline calicivirus
- Feline herpesvirus 1
- Influenza A (all strains)

INTERNAL CONTROL

- SPRY1 multi-species control

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500045 + 500046	100	On request
Panel only	500045	100	On request
Master mix only	500046	100	On request

Sample: Extracted DNA and RNA from specimens from veterinary sources, using a validated extraction method. Performance to be verified by the user. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** Feline Respiratory XL Positive Control, combined (PN 450044) or individual RNA and DNA tubes (PN 450058, 450060), included | **Master mix:** Bandit Biosystems RT-qPCR Multiplex Amplification Kit 1500, PN 500046 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.



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VETERINARY

Ringworm qPCR Panel

qPCR, qualitative multiplex — Microsporum and Trichophyton, the dermatophyte fungi associated with ringworm, in a single tube.

Targets

3 targets

Internal control: SPRY1 multi-species control

Dye channels

FAM, HEX, Cy5

Kit

1 tube · 100 reactions

Qualitative single-tube multiplex qPCR detection of Microsporum spp. (including M. canis, M. ferrugineum and M. audouinii) and Trichophyton spp. (including T. mentagrophytes, T. tonsurans and T. equinum). When paired with appropriate sampling and extraction methods, the panel is suitable for specimens from veterinary sources. The SPRY1 multi-species internal control monitors extraction and PCR inhibition.

Target	Dye
SPRY1 internal control	FAM
Microsporum spp.	HEX
Trichophyton spp.	Cy5

Specifications & Ordering

Option	SKU	Reactions	Price
Complete kit (panel + master mix)	500041 + 500042	100	On request
Panel only	500041	100	On request
Master mix only	500042	100	On request

Sample: Extracted DNA from specimens from veterinary sources, using a validated extraction method. Performance to be verified by the user. | **Reaction volume:** 15 µL (11 µL reaction mix + 4 µL sample), in 96- or 384-well plates | **Positive controls:** Ringworm Positive Control (PN 450042), included | **Master mix:** Bandit Biosystems qPCR Multiplex Amplification Kit 750, PN 500042 (sold separately) | **Instruments:** Bio-Rad CFX96 / CFX384 and CFX Opus; Roche LightCycler 480; Applied Biosystems QuantStudio 3, 5, 6, 7 and 12, and 7500 series | **Storage:** −20 °C | **Shelf life:** Up to 24 months from the date of manufacture, depending on lot and components | **Larger kits:** 500 to 1,000 reaction kits are available as a custom order.

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CANNABIS MICROBIAL DETECTION

Xen Cannabis Kit B

3 microbial targets plus a cannabis internal control · Multiplex qPCR

Targets
4 targets

Dye channels
FAM, HEX, ROX

Run time
Approximately 60 minutes for qPCR, excluding sample preparation.

Xen Cannabis Kit B is a multiplex qPCR kit for microbial detection in cannabis research. It targets the Shiga toxin genes stx1 and stx2 associated with Shiga toxin-producing E. coli (STEC), together with Salmonella and a cannabis internal control.

Target	Dye
STEC 1 (stx1)	ROX
STEC 2 (stx2)	ROX
Salmonella	FAM
Cannabis internal control	HEX

stx1 and stx2 share the ROX channel. This channel does not distinguish the two targets individually.

Controls included

Pathogen controls for Salmonella, stx1 and stx2, plus a cannabis internal control.

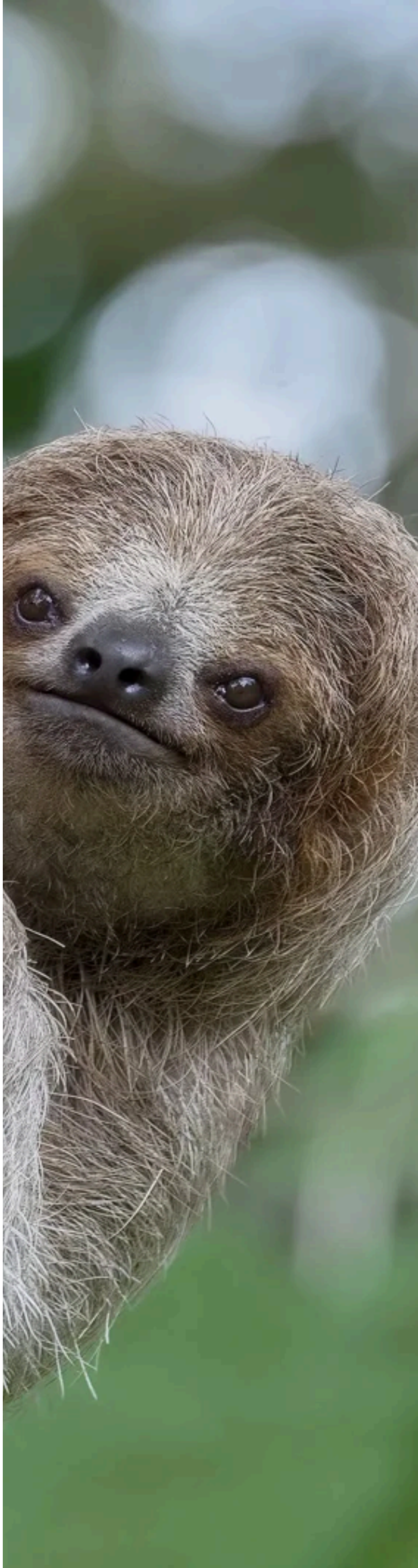
Kit size & Ordering

Catalog number	Reactions	Price
On request	On request	On request

Contact us for current kit configuration, master mix, instrument compatibility, availability and lead time. Larger kits of 500 to 1,000 reactions are available as a custom order.

Each laboratory should verify performance with its own samples, extraction method and instrument.

bandit.bio/products/xen-cannabis-kit-b
Request a quote



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CANNABIS MICROBIAL DETECTION

Xen Cannabis Kit C

4 Aspergillus species · Multiplex qPCR

Targets
4 targets

Dye channels
FAM, HEX, Cy5, ROX

Run time
Approximately 60 minutes for qPCR, excluding sample preparation.

Xen Cannabis Kit C is a multiplex qPCR kit for Aspergillus detection in cannabis research. Four species are assigned to separate fluorescence channels: Aspergillus flavus, Aspergillus fumigatus, Aspergillus terreus and Aspergillus niger.

Target	Dye
Aspergillus flavus	ROX
Aspergillus fumigatus	HEX
Aspergillus terreus	Cy5
Aspergillus niger	FAM

Four fungal targets, each on a separate fluorescence channel.

Controls included

Pathogen controls for A. flavus, A. fumigatus, A. terreus and A. niger.

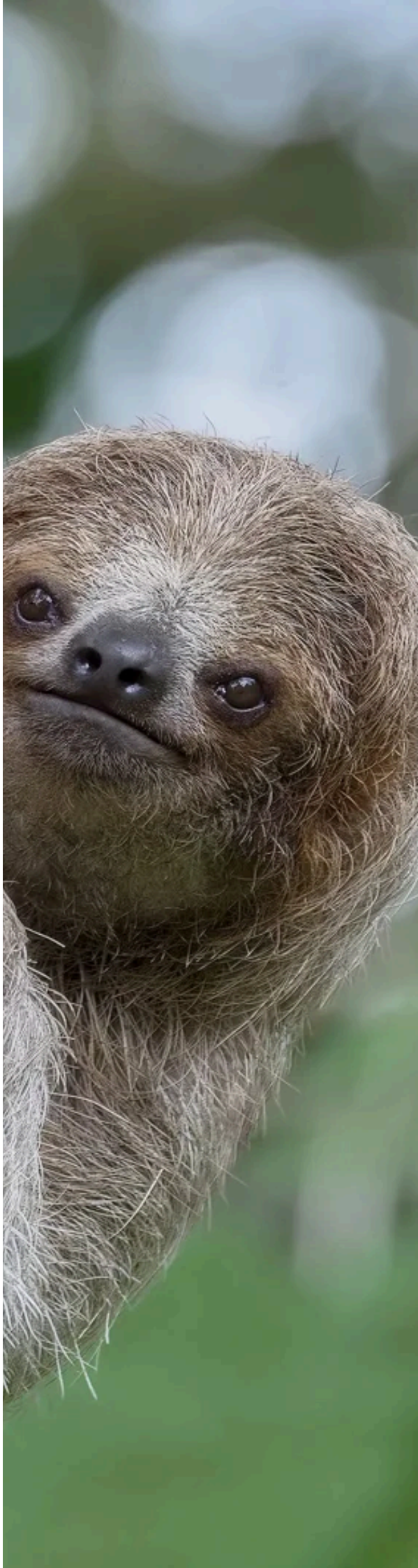
Kit size & Ordering

Catalog number	Reactions	Price
On request	On request	On request

Contact us for current kit configuration, master mix, instrument compatibility, availability and lead time. Larger kits of 500 to 1,000 reactions are available as a custom order.

Each laboratory should verify performance with its own samples, extraction method and instrument.

bandit.bio/products/xen-cannabis-kit-c
Request a quote



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AMPLIFICATION REAGENTS

Amplification Master Mixes

SeqOnce™ and Bandit Biosystems master mixes. Add your primer and probe panel, your sample and the master mix, and the reaction is ready to run. Every master mix uses a hot-start DNA polymerase that stays inactive at room temperature and activates after 2 minutes at 95 °C. RT-qPCR kits use a modified M-MLV reverse transcriptase with RNase H activity removed and increased thermal stability. All kits include nucleotides, buffers and nuclease-free water.

Kit	Chemistry	Contents	Catalog #	Price
SeqOnce™ qPCR Multiplex Amplification Kit 1200	qPCR	2 tubes master mix, 1 tube nuclease-free water	500021	Sign in
SeqOnce™ qPCR Multiplex Amplification Kit 1800	qPCR	3 tubes master mix, 1 tube nuclease-free water	500036	Sign in
SeqOnce™ qPCR Multiplex Amplification Kit 2400	qPCR	4 tubes master mix, 1 tube nuclease-free water	500022	Sign in
SeqOnce™ qPCR Multiplex Amplification Kit 3000	qPCR	5 tubes master mix, 1 tube nuclease-free water	500023	Sign in
SeqOnce™ qPCR Multiplex Amplification Kit 3600	qPCR	6 tubes master mix, 2 tubes nuclease-free water	500024	Sign in
SeqOnce™ qPCR Multiplex Amplification Kit 5400	qPCR	9 tubes master mix, 2 tubes nuclease-free water	500038	Sign in
SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 1800	RT-qPCR	3 tubes master mix, 1 tube RT, 1 tube nuclease-free water	500030	Sign in
SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 2000	RT-qPCR	2 tubes master mix, 1 tube RT, 1 tube nuclease-free water	500034	On request
SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 2400	RT-qPCR	4 tubes master mix, 1 tube RT, 1 tube nuclease-free water	500028	Sign in
SeqOnce™ OneStep RT-qPCR Multiplex Amplification Kit 3000	RT-qPCR	5 tubes master mix, 1 tube RT, 1 tube nuclease-free water	500027	Sign in
Bandit Biosystems qPCR Multiplex Amplification Kit 750	qPCR	1 × 0.75 mL master mix, 1 × 1 mL nuclease-free water	500042	On request
Bandit Biosystems RT-qPCR Multiplex Amplification Kit 1500	RT-qPCR	2 × 0.75 mL master mix, 2 × 50 µL RT mix, 1 × 1 mL nuclease-free water	500046	On request
Bandit Biosystems RT-qPCR Multiplex Amplification Kit 2250	RT-qPCR	3 × 0.75 mL master mix, 3 × RT mix, 1 × 1 mL nuclease-free water	500044	On request
Bandit Biosystems RT-qPCR Multiplex Amplification Kit 3000	RT-qPCR	4 × 0.75 mL master mix, 4 × 50 µL RT mix, 1 × 1 mL nuclease-free water	500055	On request

Prices in U.S. dollars, excluding tax and shipping. Buy a master mix with its panel as a complete kit to save. Each panel page lists its recommended master mix.

Quick Reference — Pricing & Ordering

Complete kit = panel plus its recommended amplification master mix. Panels and master mixes are also sold separately. Order online at bandit.bio, or by purchase order. Confirm shipping and storage requirements in the product documentation.

Product	SKU	Reactions	Complete kit	Panel only	Master mix only
Respiratory					
Bandit Respiratory Panel A	500011	200	Sign in	Sign in	Sign in
Bandit Respiratory Panel B	500007	200	Sign in	Sign in	Sign in
Bandit Respiratory Panel B QS	500009	200	Sign in	Sign in	Sign in
Bandit Respiratory Panel XL	500004	48	Sign in	Sign in	Sign in
Bandit SARS-CoV-2 Panel A	500010	200	On request	On request	Sign in
Enterovirus and D68 Panel	500020	200	Sign in	Sign in	Sign in
Women's health and STI					
Amur CT-NG Panel	500035	200	Sign in	Sign in	Sign in
Amur HPV Mini Panel	500026	200	Sign in	Sign in	Sign in
Amur ST Microbiota Panel A	500000	48	Sign in	Sign in	Sign in
Amur WH Vaginal Microbiota Panel A	500001	48	Sign in	Sign in	Sign in
Women's Health Panel C Ready-2-Test	500058 · 500059	48	On request	—	Included
Group B Strep Panel	500013	200	—	Sign in	—
Urinary tract					
Lioness UT Microbiota Panel A	500012	48	Sign in	Sign in	Sign in
Lioness+ UTI/ABR Combo Panel	500060	48	Sign in	Sign in	Sign in
Wound and antibiotic resistance					
Glyphis Wound Panel A	500002	48	Sign in	Sign in	Sign in
Pongo Antibiotic Resistance Panel A	500003	48	Sign in	Sign in	Sign in
Glyphis+ Wound/ABR Combo Panel	500061	48	Sign in	Sign in	Sign in
Emerging pathogens					
Measles Panel A	500039	200	Sign in	Sign in	Sign in
H5N1 Avian Influenza Panel	500029	200	Sign in	Sign in	Sign in
Mpox Panel A	500062	Made to order	On request	On request	—
Veterinary					
Canine Enteric Pathogen qPCR Panel	500053	100	On request	On request	On request
Canine Respiratory XL qPCR Panel	500043	100	On request	On request	On request
Feline Enteric Pathogen qPCR Panel	500054	100	On request	On request	On request
Feline Respiratory XL qPCR Panel	500045	100	On request	On request	On request
Ringworm qPCR Panel	500041	100	On request	On request	On request
Cannabis					
Xen Cannabis Kit B	On request	On request	On request	On request	On request
Xen Cannabis Kit C	On request	On request	On request	On request	On request

Prices in U.S. dollars, excluding tax and shipping. Sales tax is calculated at checkout. Larger kits of 500 to 1,000 reactions are available as a custom order. Volume and custom pricing on request. For panels with more than one primer and probe mix, reactions are per mix. Combo panels are 10% less than buying both complete kits. Women's Health Panel C Ready-2-Test includes master mix.

CUSTOM DESIGNS

Custom Designs, Made to Order

127 additional targets not listed in a current Bandit panel or kit. Each is developed for your project and quoted individually, alongside the 152 targets listed in our panels and kits.

Feasibility and quote: send your targets, sample type and instrument. We confirm feasibility, format and timeline in the quote. **Design:** primers and probes designed in silico. **Optimization:** wet-lab optimization in your multiplex format, up to 4 targets per reaction. **Delivery:** supplied with a matched positive control; every lot is tested before release.

3–10 weeks typical development · **24 h** response to every request · **Up to 4** targets per reaction

Viruses · 48 custom designs

- Adenovirus 40/41 (enteric)
- BK polyomavirus
- Bovine coronavirus
- Bovine respiratory syncytial virus (BRSV)
- Bovine viral diarrhea virus (BVDV)
- Canine influenza virus H3N2
- Canine influenza virus H3N8
- Chikungunya virus
- Cytomegalovirus (CMV)
- Dengue virus 1–4
- Epstein-Barr virus (EBV)
- Equine herpesvirus 1 (EHV-1)
- Equine herpesvirus 4 (EHV-4)
- Equine influenza virus
- Feline immunodeficiency virus (FIV)
- Feline leukemia virus (FeLV)
- Hepatitis A virus
- Hepatitis B virus
- Hepatitis C virus
- Hepatitis E virus
- HIV-1
- HPV 11
- HPV 31
- HPV 33
- HPV 52
- HPV 58
- HPV 6
- Human astrovirus
- Human bocavirus
- Human herpesvirus 6 (HHV-6)
- Human herpesvirus 8 (HHV-8)
- Influenza A H1N1pdm09
- JC polyomavirus
- Mumps virus
- Norovirus GI
- Norovirus GII
- Parainfluenza 4
- Parechovirus A
- Parvovirus B19
- Porcine circovirus 2 (PCV2)
- Porcine epidemic diarrhea virus (PEDV)
- Porcine reproductive and respiratory syndrome virus (PRRSV)
- Rotavirus A
- Rubella virus
- Sapovirus
- Varicella-zoster virus (VZV)
- West Nile virus
- Zika virus

Bacteria · 36 custom designs

- Aeromonas spp.
- Anaplasma phagocytophilum
- Bartonella
- Bartonella henselae
- Bordetella holmesii
- Borrelia
- Borrelia burgdorferi
- Campylobacter upsaliensis
- Chlamydia psittaci
- Corynebacterium spp.
- Cutibacterium acnes
- Ehrlichia canis
- Enterotoxigenic E. coli (LT/ST)
- Finegoldia magna
- Fusobacterium nucleatum
- Haemophilus parainfluenzae
- Helicobacter pylori
- Legionella pneumophila

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Bacteria (continued) · 36 custom designs

Leptospira spp.
Listeria monocytogenes
Mannheimia haemolytica
Mycobacterium avium complex
Mycobacterium tuberculosis complex
Mycoplasma bovis
Mycoplasma haemofelis
Pasteurella multocida
Peptostreptococcus anaerobius
Porphyromonas gingivalis
Shigella spp. / EIEC (ipaH)
Staphylococcus epidermidis
Staphylococcus lugdunensis
Staphylococcus pseudintermedius
Stenotrophomonas maltophilia
Streptococcus dysgalactiae (Group C/G)
Vibrio spp.
Yersinia enterocolitica

Fungi · 10 custom designs

Aspergillus spp. (pan)
Blastomyces dermatitidis
Candida dubliniensis
Candida guilliermondii
Cryptococcus neoformans/gattii
Fusarium spp.
Histoplasma capsulatum
Malassezia pachydermatis
Mucorales (pan)
Pneumocystis jirovecii

Parasites and protozoa · 13 custom designs

Ancylostoma spp.
Babesia spp.
Blastocystis spp.
Cyclospora cayetanensis
Cystoisospora spp.
Dientamoeba fragilis
Dirofilaria immitis
Entamoeba histolytica
Leishmania spp.
Neospora caninum
Plasmodium spp. (pan)
Strongyloides stercoralis
Toxocara canis

Antibiotic resistance genes · 20 custom designs

aac(6')-Ib-cr
armA
blaZ
cfr
CMY-2
DHA
fosA
GES
mcr-1
mecC
mph(A)
msr(A)
OXA-23
OXA-24/40
PER
qepA
tet(B)
tet(O)
vanC
VEB

How to order: send your target list, sample type and instrument to info@bandit.bio, or use bandit.bio/design-your-panel. Purchase orders: orders@bandit.bio.

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Conservation Initiative

Bandit Biosystems supports the protection and conservation of endangered and threatened species.

By highlighting threatened or endangered species, Bandit Biosystems hopes to draw attention to conservation efforts. As biologists, we believe humanity is better served when ecologies are maintained and there is diversity of life.

Gorilla

Western and eastern gorillas are listed as Critically Endangered on the IUCN Red List, threatened by habitat loss and poaching.

Rhinoceros

Several rhino species face critical endangerment due to illegal poaching for their horns and habitat encroachment.

Amur Leopard

One of the world's most endangered wild cats, with fewer than 100 individuals estimated in the wild.

Contact Bandit Biosystems

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Web
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Bandit Biosystems, Inc.
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Safety Data Sheets
Available on request from info@bandit.bio



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