

# Test Results

Order #: **2024032907**

LTM Customer ID: 38307  
The University of Hong Kong  
U Hong Kong Ctr for Comparative Med  
Research UHK

Charles River Research Animal Diagnostic Services  
(CR RADS)  
261 Ballardvale Street  
Receiving Dock, Bldg 22  
Wilmington MA 01887 USA

10A Sassoon Road  
Pokfulam, HK 0 Hong Kong

## Billing Information

### Payment Method

Purchase Order PO#: Covering Invoice for  
#2024032907

University of Hong Kong  
10A Sassoon Road  
Pokfulam, HK 0 Hong Kong

## Details

Sample(s) from: NULL

Collection Date  
06-Jun-2024

Arrival Date  
21-Jun-2024

Approval Date  
28-Jun-2024

## Notes

Lab. No. 2406H301 (Interceptor), Location: Conventional Experimental Holding Area, Dexter H.C. Man Building (CA-DMB)

## Diagnostic Summary

Test	Colony	Tested	+	+/-	?	PDG
Demodex PCR UHK Hamster Surveillance Plus PRIA	n/d	1	1	0	0	0
P. mirabilis PCR UHK Hamster Surveillance Plus PRIA	n/d	1	1	0	0	0
Pasteurellaceae PCR UHK Hamster Surveillance Plus PRIA	n/d	1	1	0	0	0
S. aureus PCR UHK Hamster Surveillance Plus PRIA	n/d	1	1	0	0	0

+ = Positive, +/- = Equivocal, ? = Indeterminate, PDG = Pending

To assure the health status of your research animal colonies, it is essential that you understand the sources, pathobiology, diagnosis and control of pathogens and other adventitious infectious agents that may cause research interference. We have summarized this important information in infectious agent **Technical Sheets**, which you can view by visiting [http://www.criver.com/info/disease\\_sheets](http://www.criver.com/info/disease_sheets).

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## Notes

Lab. No. 2406H301 (Interceptor), Location: Conventional Experimental Holding Area, Dexter H.C. Man Building (CA-DMB)

## Molecular Diagnostics: Infectious

### Disease PCR

Results approved by Magan, Kyria on 28 Jun 2024

### UHK Hamster Surveillance Plus PRIA

**1**  
2406H301,  
Rm.E317

Group A Rotavirus	-
Hamster Parvovirus	-
LCMV PCR	-
POLY PCR	-
PVM PCR	-
REO PCR	-
Sarbecovirus (SARS Virus) PCR	-
SEND PCR	-
Beta Strep Grp A PCR	-
Beta Strep Grp B PCR	-
Beta Strep Grp C PCR	-
Beta Strep Grp G PCR	-
B. bronchiseptica PCR	-
Campylobacter Genus PCR	-
C. bovis PCR	-
C. kutscheri PCR	-
C. piliforme PCR	-
Helicobacter genus PCR	-
K. oxytoca PCR	-
K. pneumoniae PCR	-
Lawsonia PCR	-
Pasteurellaceae PCR	+
P. multocida PCR	-
R. heyltii PCR	-
R. pneumotropicus PCR	-
P. mirabilis PCR	+
Ps. aeruginosa PCR	-
Salmonella Genus PCR	-
S. aureus PCR	+
S. pneumoniae PCR	-

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## Notes

Lab. No. 2406H301 (Interceptor), Location: Conventional Experimental Holding Area, Dexter H.C. Man Building (CA-DMB)

## Molecular Diagnostics: Infectious

### Disease PCR

Results approved by Magan, Kyria on 28 Jun 2024

#### UHK Hamster Surveillance Plus PRIA (continued)

1  
2406H301,  
Rm.E317

<b>Cryptosporidium PCR</b>	-
<b>Demodex PCR</b>	+
<b>Entamoeba PCR</b>	-
<b>E. cuniculi PCR</b>	-
<b>Giardia PCR</b>	-
<b>Mite PCR</b>	-
<b>Pinworm PCR</b>	-
<b>Spironucleus muris PCR</b>	-

#### Remarks

- = Negative, +/- = Equivocal; + = Positive; I = Inconclusive.

An equivocal result indicates inconsistent amplification detected by real-time PCR.

Inconclusive indicates failure of control result.

Nucleic Acid Recovery Control (NRC)/Inhibition Control: A low copy exogenous nucleic acid was added to sample lysis prior to nucleic acid isolation to serve as both a control to monitor for nucleic acid recovery and PCR inhibition. An RNA NRC also monitors reverse transcription for RNA virus assays. Nucleic acid recovery and PCR inhibition is monitored by a PCR assay specific for the NRC template. Unless otherwise stated, the control results passed for this order.

Any samples reported as equivocal or positive result in this report has been confirmed by re-extracting nucleic acid and repeating real-time PCR amplification to confirm the initial testing result. If any results are unexpected positives, it is suggested to submit a new representative sample for gratis retesting of the specific agent(s) in question. Please reference this order on the new submission so we can adjust the billing to gratis. The gratis testing is only up to the number of unexpected results in this order.

Recommended sample types are essential to accurate results. Missing or inappropriate sample types and/or expired buffer/additives can affect detection, and may produce false-negative results. If this report contains an unexpected result or are unsure of recommended sample types, please contact Lab Services@crl.com before taking any action. Additional or alternative testing may be essential to reaching an accurate diagnosis. We will be glad to test newly submitted samples for the positive agents up to the number of unexpected results in this order.

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## Notes

Lab. No. 2406H301 (Interceptor), Location: Conventional Experimental Holding Area, Dexter H.C. Man Building (CA-DMB)

## Sample Information

Number	Code	Species	Colony	Strain	Age	Sex
1	2406H301, Rm.E317	Hamster	n/d	AURA (Golden Syrian)		

# Test Results

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## Billing Information

### Payment Method

Purchase Order PO#: Covering Invoice for  
#2024030633

University of Hong Kong  
10A Sassoon Road  
Pokfulam, HK 0 Hong Kong

## Details

Sample(s) from: NULL

### Collection Date

28-May-2024

### Arrival Date

21-Jun-2024

### Approval Date

01-Jul-2024

## Notes

Lab. No. 2406AR5A (Interceptor), Location: Conventional Experimental Holding Area – Laboratory Block, Li Ka Shing Faculty of Medicine (CA-FMB)

## Diagnostic Summary

Test	Colony	Tested	+	+/-	?	PDG
Aspiculuris tetraptera Pinworm Speciation PCR	n/d	1	1	0	0	0
Astrovirus-1 PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Astrovirus-2 PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
D. musculi PCR	n/d	1	1	0	0	0
Demodex PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Entamoeba PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
H. ganmani Helicobacter species specific assays	n/d	1	1	0	0	0
H. hepaticus UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
H. hepaticus Helicobacter species specific assays	n/d	1	1	0	0	0
H. mastomyrinus Helicobacter species specific assays	n/d	1	1	0	0	0
H. typhlonius Helicobacter species specific assays	n/d	1	1	0	0	0
Helicobacter genus PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Hexamastix muris PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
MHV PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Mite PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0

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## Notes

Lab. No. 2406AR5A (Interceptor), Location: Conventional Experimental Holding Area – Laboratory Block, Li Ka Shing Faculty of Medicine (CA-FMB)

## Diagnostic Summary

Test	Colony	Tested	+	+/-	?	PDG
MNV PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Myobia musculi PCR Mite species specific assays	n/d	1	1	0	0	0
P. mirabilis PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Pinworm PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Pneumocystis PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
R. heyltii PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
R. pneumotropicus PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Rodent Chaphamaparvovirus 1 (MuCPV/MKPV PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Spironucleus muris PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0
Syphacia obvelata Pinworm Speciation PCR	n/d	1	1	0	0	0
Tritrichomonas genus PCR UHK Mouse Quarantine PRIA	n/d	1	1	0	0	0

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## Notes

Lab. No. 2406AR5A (Interceptor), Location: Conventional Experimental Holding Area – Laboratory Block, Li Ka Shing Faculty of Medicine (CA-FMB)

## Molecular Diagnostics: Infectious

### Disease PCR

Results approved by Peck, DiAnne on 01 Jul 2024

### UHK Mouse Quarantine PRIA

1  
2406AR5  
A

Astrovirus-1 PCR	+
Astrovirus-2 PCR	+
Hantaan PCR	-
Hantaviruses New World PCR	-
LCMV PCR	-
LDV PCR	-
MAV 1 & 2 PCR	-
MCMV PCR	-
MHV PCR	+
MNV PCR	+
Mousepox (Ectromelia) PCR	-
Mouse Parvovirus (MPV/MVM) PCR	-
MRV (EDIM) PCR	-
MTLV PCR	-
Rodent Chaphamaparvovirus 1 (MuCPV/MKPV PCR	+
POLY PCR	-
PVM PCR	-
REO PCR	-
SEND PCR	-
TMEV/GDVII PCR	-
Beta Strep Grp A PCR	-
Beta Strep Grp B PCR	-
Beta Strep Grp C PCR	-
Beta Strep Grp G PCR	-
B. bronchiseptica PCR	-
B. pseudohinzii PCR	-
Campylobacter Genus PCR	-
C. rodentium PCR	-
C. piliforme PCR	-

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## Molecular Diagnostics: Infectious

### Disease PCR

Results approved by Peck, DiAnne on 01 Jul 2024

#### UHK Mouse Quarantine PRIA (continued)

1  
2406AR5  
A

<i>C. bovis</i> PCR	-
<i>C. kutscheri</i> PCR	-
<i>Filobacterium rodentium</i> (CAR <i>Bacillus</i> ) PCR	-
<i>Helicobacter</i> genus PCR	+
<i>H. bilis</i>	-
<i>H. hepaticus</i>	+
<i>K. oxytoca</i> PCR	-
<i>K. pneumoniae</i> PCR	-
<i>K</i> Virus PCR	-
<i>M. pulmonis</i> PCR	-
<i>R. heylii</i> PCR	+
<i>R. pneumotropicus</i> PCR	+
<i>P. multocida</i> PCR	-
<i>P. mirabilis</i> PCR	+
<i>Salmonella</i> Genus PCR	-
<i>Ps. aeruginosa</i> PCR	-
<i>S. aureus</i> PCR	-
<i>S. moniliformis</i> PCR	-
<i>S. pneumoniae</i> PCR	-
<i>Toxoplasma gondii</i> PCR	-
<i>Y. enterocolitica</i> PCR	-
<i>Y. pseudotuberculosis</i> PCR	-
<i>Cryptosporidium</i> PCR	-
<i>Chilomastix muris</i> PCR	-
<i>Demodex</i> PCR	+
<i>E. cuniculi</i> PCR	-
<i>Entamoeba</i> PCR	+
<i>Giardia</i> PCR	-
<i>Mite</i> PCR	+



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## Molecular Diagnostics: Infectious

### Disease PCR

Results approved by Peck, DiAnne on 01 Jul 2024

#### UHK Mouse Quarantine PRIA (continued)

1  
2406AR5  
A

Pinworm PCR	+
Pneumocystis PCR	+
Hexamastix muris PCR	+
Spirotrichomonas muris PCR	+
Trichomonas genus PCR	+

#### Helicobacter species specific assays

1  
2406AR5  
A

<i>H. bilis</i>	-
<i>H. ganmani</i>	+
<i>H. hepaticus</i>	+
<i>H. mastomyrinus</i>	+
<i>H. rodentium</i>	-
<i>H. typhlonius</i>	+

#### Pinworm Speciation PCR

1  
2406AR5  
A

<i>Aspicularis tetraptera</i>	+
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	+

#### Mite species specific assays

1  
2406AR5  
A

<i>Myobia musculi</i> PCR	+
<i>Myocoptes musculinus</i> PCR	-
<i>Radfordia affinis</i> PCR	-
<i>Radfordia ensifera</i> PCR	-

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## Notes

Lab. No. 2406AR5A (Interceptor), Location: Conventional Experimental Holding Area – Laboratory Block, Li Ka Shing Faculty of Medicine (CA-FMB)

## Molecular Diagnostics: Infectious

### Disease PCR

Results approved by Peck, DiAnne on 01 Jul 2024

### Assays

	1
	2406AR5
	A
<b>D. musculi PCR</b>	<b>+</b>

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## Notes

Lab. No. 2406AR5A (Interceptor), Location: Conventional Experimental Holding Area – Laboratory Block, Li Ka Shing Faculty of Medicine (CA-FMB)

## Sample Information

Number	Code	Species	Colony	Strain	Age	Sex
1	2406AR5A	Mouse	n/d	IVC Sentinel/ ICR (CD-1)		

# Test Results

Order #: **2024028538**

LTM Customer ID: 38307  
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10A Sassoon Road  
Pokfulam, HK 0 Hong Kong

## Billing Information

### Payment Method

Purchase Order PO#: Covering Invoice for  
#2024028538

University of Hong Kong  
10A Sassoon Road  
Pokfulam, HK 0 Hong Kong

## Details

Sample(s) from: NULL

Collection Date  
04-Jun-2024

Arrival Date  
21-Jun-2024

Approval Date  
25-Jun-2024

## Notes

Lab. No. 2406M501-2406M502, Location: Conventional Experimental Holding Area - Kadoorie Biological Sciences Building (CA-KA)

## Diagnostic Summary

Test	Colony	Tested	+	+/-	?	PDG
IFA MHV	n/d	2	2	0	0	0
MFIA MHV UHK MFIA Mouse Full Profile	n/d	2	2	0	0	0
MFIA MNV UHK MFIA Mouse Full Profile	n/d	2	2	0	0	0

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## Notes

Lab. No. 2406M501-2406M502, Location: Conventional Experimental Holding Area - Kadoorie Biological Sciences Building (CA-KA)

## Serology

Results approved by Cormier, Danielle on 25 Jun 2024

**1**                      **2**  
2406M501,    2406M502,  
Rm.8S21       Rm.8S21

	<b>1</b>	<b>2</b>
<b>MFIA SEND</b>	-	-
<b>MFIA PVM</b>	-	-
<b>MFIA MHV</b>	+	+
<b>MFIA MVM</b>	-	-
<b>MFIA MPV-1</b>	-	-
<b>MFIA MPV-2</b>	-	-
<b>MFIA MPV-5</b>	-	-
<b>MFIA NS-1</b>	-	-
<b>MFIA MNV</b>	+	+
<b>MFIA GDVII</b>	-	-
<b>MFIA REO</b>	-	-
<b>MFIA EDIM (ROTA-A)</b>	-	-
<b>MFIA LCMV</b>	-	-
<b>MFIA ECTRO</b>	-	-
<b>MFIA MAV 1 &amp; 2</b>	-	-
<b>MFIA MCMV</b>	-	-
<b>MFIA K Virus</b>	-	-
<b>MFIA MTLV</b>	-	-
<b>MFIA POLY</b>	-	-
<b>MFIA HTNV (HANT)</b>	-	-
<b>MFIA MPUL</b>	-	-
<b>MFIA CARB (F. rodentium)</b>	-	-
<b>MFIA LDV</b>	-	-
<b>MFIA CPIL</b>	-	-
<b>MFIA ECUN</b>	-	-
<b>MFIA PHV</b>	-	-
<b>MFIA Anti-Ig</b>	P	P
<b>IFA MHV</b>	+	+

Serology Profile: UHK MFIA Mouse Full Profile

Remarks

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## Notes

Lab. No. 2406M501-2406M502, Location: Conventional Experimental Holding Area - Kadoorie Biological Sciences Building (CA-KA)

## MFIA/IFA/ELISA/WIB Results:

- = Negative
- +/- = Equivocal
- + = Moderate to strong positive
- TC = Non-specific reaction with tissue control
- I = Indeterminate or Inconclusive
- IN = Interpreted as non-specific (MFIA result not confirmed by alternate serologic assay or diagnostic methodology)
- PDG = Pending
- QNS = Quantity not sufficient

The anti-immunoglobulin (Anti-Ig) MFIA control verifies that a serum specimen contains a sufficient concentration of immunoglobulin to be suitable for serologic testing. A result of P (for Pass) corresponds to a median fluorescence index (MFI) at or above the Anti-Ig assay cutoff, typically  $\geq 7000$ . An Anti-Ig assay result of F (for Fail), is assigned if the MFI is below the cutoff which might occur because the sample was received too dilute, was collected from an immunocompromised host or was from a species other than the one for which the MFIA is intended. If a sample fails the Anti-Ig MFIA control, then negative and borderline results in MFIA assays for microbial antibodies are considered Inconclusive because the testing is not valid.

Please contact Lab Services ([labservices@crl.com](mailto:labservices@crl.com)) with questions about these interpretations.

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## Notes

Lab. No. 2406M501-2406M502, Location: Conventional Experimental Holding Area - Kadoorie Biological Sciences Building (CA-KA)

## Sample Information

Number	Code	Species	Colony	Strain	Age	Sex
1	2406M501, Rm.8S21	Mouse	n/d	Sentinel/ ICR (CD-1)	Adult	Female
2	2406M502, Rm.8S21	Mouse	n/d	Sentinel/ ICR (CD-1)	Adult	Female

# Test Results

Order #: **2024031020**

LTM Customer ID: 38307  
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## Billing Information

### Payment Method

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#2024031020

University of Hong Kong  
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## Details

Sample(s) from: NULL

### Collection Date

28-May-2024

### Arrival Date

21-Jun-2024

### Approval Date

01-Jul-2024

## Notes

Lab No. 2406F27-F29, Location: L6-13, Zebrafish Core Facility, Laboratory Block, Li Ka Shing Faculty of Medicine

## Diagnostic Summary

Test	Colony	Tested	+	+/-	?	PDG
Mycobacterium abscessus PCR UHK Zebrafish Surveillance Plus PCR Panel	n/d	3	2	0	0	0
Mycobacterium chelonae PCR UHK Zebrafish Surveillance Plus PCR Panel	n/d	3	1	0	0	0
Zebrafish picornavirus UHK Zebrafish Surveillance Plus PCR Panel	n/d	3	1	0	0	0

+ = Positive, +/- = Equivocal, ? = Indeterminate, PDG = Pending

To assure the health status of your research animal colonies, it is essential that you understand the sources, pathobiology, diagnosis and control of pathogens and other adventitious infectious agents that may cause research interference. We have summarized this important information in infectious agent **Technical Sheets**, which you can view by visiting [http://www.criver.com/info/disease\\_sheets](http://www.criver.com/info/disease_sheets).



# Test Results

Order #: **2024031020**

LTM Customer ID: 38307  
The University of Hong Kong  
U Hong Kong Ctr for Comparative Med  
Research UHK

Charles River Research Animal Diagnostic Services  
(CR RADS)  
261 Ballardvale Street  
Receiving Dock, Bldg 22  
Wilmington MA 01887 USA

10A Sassoon Road  
Pokfulam, HK 0 Hong Kong

## Notes

Lab No. 2406F27-F29, Location: L6-13, Zebrafish Core Facility, Laboratory Block, Li Ka Shing Faculty of Medicine

## Molecular Diagnostics: Infectious

### Disease PCR

Results approved by Magan, Kyria on 01 Jul 2024

#### UHK Zebrafish Surveillance Plus PCR Panel

<u>1</u>	<u>2</u>	<u>3</u>
2406F27, Rm.L6-13 (Pre-filtratio n fish)	2406F28, Rm.L6-13 (Post-filtrati on fish)	2406F29, Rm.L6-13

	<u>1</u>	<u>2</u>	<u>3</u>
<i>Aeromonas hydrophila</i> PCR	-	-	-
<i>Edwardsiella ictaluri</i> PCR	-	-	-
<i>Flavobacterium columnare</i> PCR	-	-	-
<i>Ichthyophthirius multifiliis</i> PCR	-	-	-
<i>Infectious pancreatic necrosis virus (IPNV)</i> PCR	-	-	-
<i>Infectious spleen and kidney necrosis virus -ISKNV</i>	-	-	-
<i>Mycobacterium abscessus</i> PCR	-	+	+
<i>Mycobacterium chelonae</i> PCR	-	-	+
<i>Mycobacterium fortuitum</i> PCR	-	-	-
<i>Mycobacterium gordonae</i>	-	-	-
<i>Mycobacterium haemophilum</i> PCR	-	-	-
<i>Mycobacterium marinum</i> PCR	-	-	-
<i>Mycobacterium peregrinum</i> PCR	-	-	-
<i>Mycobacterium saopaulense</i>	-	-	-
<i>Myxidium streisingeri</i>	-	-	-
<i>Piscinoodinium pillulare</i> PCR	-	-	-
<i>Pleistophora hyphessobryconis</i> PCR	-	-	-
<i>Pseudocapillaria tomentosa</i> PCR	-	-	-
<i>Pseudoloma neurophilia</i> PCR	-	-	-
<i>Saprolegnia brachydanis</i> PCR	-	-	-
<i>Zebrafish picornavirus</i>	+	-	-

Remarks

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## Notes

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- = Negative, +/- = Equivocal; + = Positive; I = Inconclusive.

An equivocal result indicates inconsistent amplification detected by real-time PCR.

Inconclusive indicates failure of control result.

Nucleic Acid Recovery Control (NRC)/Inhibition Control: A low copy exogenous nucleic acid was added to sample lysis prior to nucleic acid isolation to serve as both a control to monitor for nucleic acid recovery and PCR inhibition. An RNA NRC also monitors reverse transcription for RNA virus assays. Nucleic acid recovery and PCR inhibition is monitored by a PCR assay specific for the NRC template. Unless otherwise stated, the control results passed for this order.

Any samples reported as equivocal or positive result in this report has been confirmed by re-extracting nucleic acid and repeating real-time PCR amplification to confirm the initial testing result. If any results are unexpected positives, it is suggested to submit a new representative sample for gratis retesting of the specific agent(s) in question. Please reference this order on the new submission so we can adjust the billing to gratis. The gratis testing is only up to the number of unexpected results in this order.

Recommended sample types are essential to accurate results. Missing or inappropriate sample types and/or expired buffer/additives can affect detection, and may produce false-negative results. If this report contains an unexpected result or are unsure of recommended sample types, please contact [Lab\\_Services@crl.com](mailto:Lab_Services@crl.com) before taking any action. Additional or alternative testing may be essential to reaching an accurate diagnosis. We will be glad to test newly submitted samples for the positive agents up to the number of unexpected results in this order.

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## Sample Information

Number	Code	Species	Colony	Strain	Age	Sex
1	2406F27, Rm.L6-13 (Pre-filtration fish)	Zebrafish	n/d	TU (Pre-filtratio n fish)		
2	2406F28, Rm.L6-13 (Post-filtration fish)	Zebrafish	n/d	Unknown (Post-filtrati on fish)		
3	2406F29, Rm.L6-13	Zebrafish	n/d	Sump swab		