

Australian BioResources
Health Screening Report - Client Strains



Client Strains - Immunodeficient - Biobubbles 7, 5, 4 (From May 17 Biobubble 9, 5 & 4)

Notes- Immunodeficient client strains housed in biobubble 9 & 6 from 2018

| | May-17 | Aug-17 | Nov-17 | Feb-18 | Sample System | Sample Type |
|-----------------------------------|---------|---------|---------|---------|---------------|-------------|
| Viruses | pos/neg | pos/neg | pos/neg | pos/neg | | |
| Mouse Hepatitis Virus | 0/3 | 0/3 | 0/3 | 0/3 | SBS | Serology |
| Mouse Parvovirus | 0/3 | 0/3 | 0/3 | 0/3 | SBS | Serology |
| Minute Virus of Mice | 0/3 | 0/3 | 0/3 | 0/3 | SBS | Serology |
| Mouse Rotavirus | 0/3 | 0/3 | 0/3 | 0/3 | SBS | Serology |
| Theiler's Encephalomyelitis virus | 0/3 | 0/3 | 0/3 | 0/3 | SBS | Serology |
| Mouse Norovirus | 0/3 | 0/3 | 0/3 | 0/3 | SBS | Serology |
| Pneumonia Virus of Mice | 0/3 | 0/3 | 0/3 | 0/3 | SBS | Serology |
| Adenovirus Type 1&2 | NT | 0/3 | NT | 0/3 | SBS | Serology |
| Ectromelia | NT | 0/3 | NT | 0/3 | SBS | Serology |
| Hantavirus | NT | NT | NT | 0/3 | SBS | Serology |
| LCMV | NT | 0/3 | NT | 0/3 | SBS | Serology |
| Murine Cytomegalovirus | NT | NT | NT | 0/3 | SBS | Serology |
| Polyoma Virus | NT | NT | NT | 0/3 | SBS | Serology |
| Reovirus Type 3 | NT | 0/3 | NT | 0/3 | SBS | Serology |
| Sendai Virus | 0/3 | 0/3 | NT | 0/3 | SBS | Serology |
| K Virus | NT | NT | NT | 0/3 | SBS | Serology |
| Bacteria | | | | | | |
| Mycoplasma pulmonis | 0/3 | 0/3 | 0/3 | 0/3 | SBS | Serology |
| Helicobacter spp | 0/3 | 0/3 | 0/3 | 0/3 | RE | RE/PCR |
| Citrobacter rodentium | NT | 0/3 | NT | 0/3 | SBS | Culture |
| Staphylococcus aureus | NT | 0/3 | NT | 0/3 | SBS | Culture |
| Pseudomonas aeruginosa | NT | 0/3 | NT | 0/3 | SBS | Culture |
| Pasteurella pneumotropica | NT | 0/3 | NT | 0/3 | SBS | Culture/PCR |
| CAR Bacillus | NT | NT | NT | 0/3 | SBS | Serology |
| Clostridium piliforme | NT | NT | NT | 0/3 | SBS | Serology |
| Corynebacterium kutscheri | NT | 0/3 | NT | 0/3 | SBS | Culture |
| Klebsiella pneumoniae | NT | 0/3 | NT | 0/3 | SBS | Culture |
| Streptococcus pneumoniae | NT | 0/3 | NT | 0/3 | SBS | Culture |
| Parasites | | | | | | |
| Ectoparasites | NT | 0/3 | NT | 0/3 | SBS | RE/PCR |
| Syphacia spp | 0/3 | 0/3 | 0/3 | 0/3 | RE | RE/PCR |
| Aspicularis tetraptera | 0/3 | 0/3 | 0/3 | 0/3 | RE | RE/PCR |
| Giardia muris | NT | 0/3 | NT | 0/3 | SBS | RE/PCR |
| Entamoeba muris | NT | 0/3 | NT | 0/3 | SBS | RE/PCR |
| Spiroplasma muris | NT | 0/3 | NT | 0/3 | SBS | RE/PCR |
| Encephalitozoon cuniculi | NT | NT | NT | 0/3 | SBS | Serology |
| Fungi | | | | | | |
| Pneumocystis murina | NT | 0/3 | NT | 0/2 | SBS | PCR Lung |

Sampling System Used
1. Soiled Bedding Sentinel (SBS)
2. Rack Exhaust (RE)



Client Strains - Immunocompetent - Biobubbles 8, 9, 11

| | May-17 | Aug-17 | Nov-17 | Feb-18 | Sample System | Sample Type |
|-----------------------------------|---------|---------|---------|---------|---------------|-------------|
| | pos/neg | pos/neg | pos/neg | pos/neg | | |
| Viruses | | | | | | |
| Mouse Hepatitis Virus | 0/23 | 0/23 | 0/23 | 0/23 | SBS | Serology |
| Mouse Parvovirus | 0/23 | 0/23 | 0/23 | 0/23 | SBS | Serology |
| Minute Virus of Mice | 0/23 | 0/23 | 0/23 | 0/23 | SBS | Serology |
| Mouse Rotavirus | 0/23 | 0/23 | 0/23 | 0/23 | SBS | Serology |
| Theiler's Encephalomyelitis virus | 0/23 | 0/23 | 0/23 | 0/23 | SBS | Serology |
| Mouse Norovirus | 0/23 | 0/23 | 0/23 | 0/23 | SBS | Serology |
| Pneumonia Virus of Mice | 0/23 | 0/23 | 0/23 | 0/23 | SBS | Serology |
| Adenovirus Type 1&2 | NT | 0/23 | NT | 0/23 | SBS | Serology |
| Ectromelia | NT | 0/23 | NT | 0/23 | SBS | Serology |
| Hantavirus | NT | NT | NT | 0/23 | SBS | Serology |
| LCMV | NT | 0/23 | NT | 0/23 | SBS | Serology |
| Murine Cytomegalovirus | NT | NT | NT | 0/23 | SBS | Serology |
| Polyoma Virus | NT | NT | NT | 0/23 | SBS | Serology |
| Reovirus Type 3 | NT | 0/23 | NT | 0/23 | SBS | Serology |
| Sendai Virus | 0/23 | 0/23 | NT | 0/23 | SBS | Serology |
| K Virus | NT | NT | NT | 0/23 | SBS | Serology |
| Bacteria | | | | | | |
| Mycoplasma pulmonis | 0/23 | 0/23 | 0/23 | 0/23 | SBS | Serology |
| Helicobacter spp | 0/23 | 0/23 | 0/23 | 0/23 | RE | RE/PCR |
| Citrobacter rodentium | NT | 0/23 | NT | 0/23 | SBS | Culture |
| Staphylococcus aureus | NT | 0/23 | NT | 0/23 | SBS | Culture |
| Pseudomonas aeruginosa | NT | 0/23 | NT | 0/23 | SBS | Culture |
| Pasteurella pneumotropica | NT | 0/23 | NT | * | RE | RE/PCR |
| CAR Bacillus | NT | NT | NT | 0/23 | SBS | Serology |
| Clostridium piliforme | NT | NT | NT | 0/23 | SBS | Serology |
| Corynebacterium kutscheri | NT | 0/23 | NT | 0/23 | SBS | Culture |
| Klebsiella pneumoniae | NT | 0/23 | NT | 0/23 | SBS | Culture |
| Streptococcus pneumoniae | NT | 0/23 | NT | 0/23 | SBS | Culture |
| Parasites | | | | | | |
| Ectoparasites | NT | 0/23 | NT | 0/23 | RE | RE/PCR |
| Syphacia spp | 0/23 | 0/23 | 0/23 | 0/23 | RE | RE/PCR |
| Aspicularis tetraptera | 0/23 | 0/23 | 0/23 | 0/23 | RE | RE/PCR |
| Giardia muris | NT | 0/23 | NT | 0/23 | RE | RE/PCR |
| Entamoeba muris | NT | 0/23 | NT | 0/23 | RE | RE/PCR |
| Spironucleus muris | NT | 0/23 | NT | 0/23 | RE | RE/PCR |
| Encephalitozoon cuniculi | NT | NT | NT | 0/23 | SBS | Serology |

* P.pneumotropica results are being confirmed by individual line screening They will be posted as soon as they become available

Sampling System Used

1. Soiled Bedding Sentinel (SBS)
2. Rack Exhaust (RE)



Client Strains - Immunocompetent - Biobubbles 1,3,4,6

| | May-17 | Aug-17 | Nov-17 | Feb-18 | Sample System | Sample/ test |
|-----------------------------------|---------|---------|---------|---------|---------------|--------------|
| Viruses | pos/neg | pos/neg | pos/neg | pos/neg | | |
| Mouse Hepatitis Virus | 0/44 | 0/43 | 0/44 | 0/44 | SBS | Serology |
| Mouse Parvovirus | 0/44 | 0/43 | 0/44 | 0/44 | SBS | Serology |
| Minute Virus of Mice | 0/44 | 0/43 | 0/44 | 0/44 | SBS | Serology |
| Mouse Rotavirus | 0/44 | 0/43 | 0/44 | 0/44 | SBS | Serology |
| Theiler's Encephalomyelitis virus | 0/44 | 0/43 | 0/44 | 0/44 | SBS | Serology |
| Mouse Norovirus | 0/44 | 0/43 | 0/44 | 0/44 | SBS | Serology |
| Pneumonia Virus of Mice | 0/44 | 0/43 | 0/44 | 0/44 | SBS | Serology |
| Adenovirus Type 1&2 | NT | 0/43 | NT | 0/44 | SBS | Serology |
| Ectromelia | NT | 0/43 | NT | 0/44 | SBS | Serology |
| Hantavirus | NT | NT | NT | 0/44 | SBS | Serology |
| LCMV | NT | 0/43 | NT | 0/44 | SBS | Serology |
| Murine Cytomegalovirus | NT | NT | NT | 0/44 | SBS | Serology |
| Polyoma Virus | NT | NT | NT | 0/44 | SBS | Serology |
| Reovirus Type 3 | NT | 0/43 | NT | 0/44 | SBS | Serology |
| Sendai Virus | 0/44 | 0/43 | NT | 0/44 | SBS | Serology |
| K Virus | NT | NT | NT | 0/44 | SBS | Serology |
| Bacteria | | | | | | |
| Mycoplasma pulmonis | 0/44 | 0/43 | 0/44 | 0/44 | SBS | Serology |
| Helicobacter spp | 0/44 | 0/43 | 0/4 | 0/44 | SBS& RE | PCR faeces |
| Citrobacter rodentium | NT | 0/43 | NT | 0/44 | SBS | Culture |
| Staphylococcus aureus | NT | 0/43 | NT | 0/44 | SBS | Culture |
| Pseudomonas aeruginosa | NT | 0/43 | NT | 0/44 | SBS | Culture |
| Pasteurella pneumotropica | 3/5* | 2/44* | NT | *24/33 | SBS/RS/RE | Culture/PCR |
| CAR Bacillus | NT | NT | NT | 0/44 | SBS | Serology |
| Clostridium piliforme | NT | NT | NT | 0/44 | SBS | Serology |
| Corynebacterium kutscheri | NT | 0/43 | NT | 0/44 | SBS | Culture |
| Klebsiella pneumoniae | NT | 0/43 | NT | 0/44 | SBS | Culture |
| Streptococcus pneumoniae | NT | 0/43 | NT | 0/44 | SBS | Culture |
| Parasites | | | | | | |
| Ectoparasites | NT | 0/43 | NT | 0/44 | SBS | PCR fur |
| Syphacia spp | 0/44 | 0/43 | 0/44 | 0/44 | SBS& RE | PCR faeces |
| Aspicularis tetraptera | 0/44 | 0/43 | 0/44 | 0/44 | SBS& RE | PCR faeces |
| Giardia muris | NT | 0/43 | NT | 0/44 | SBS | PCR faeces |
| Entamoeba muris | NT | 0/43 | NT | 0/44 | SBS | PCR faeces |
| Spiroplasma muris | NT | 0/43 | NT | 0/44 | SBS | PCR faeces |
| Encephalitozoon cuniculi | NT | NT | NT | 0/44 | SBS | Serology |

Sampling System Used

1. Soiled Bedding Sentinel (SBS)
4. Rack Exhaust (RE)

*Notes

Rack exhaust monitoring was introduced gradually at ABR from May 2017.

Rack exhaust monitoring is more sensitive in the detection of P.pneumotropica than the previous method of soiled bedding sentinels.

1. Rack monitoring and direct oral swabs produced positive results on known P. Pneumotropica mice in Biobubble 1- May 17
2. Rack monitoring and colony swabs detected P.pneumotropica in Biobubble 1 & Biobubble 3- Aug 17
3. Rack exhaust monitoring was fully implemented in Feb 2018 & detected 24/33 positive results in bubbles 1,3 & 4.
4. Bubble 6 -This biobubble was re-organised in Feb 2018 and some lines moved to other biobubbles to create a P. pneumotropica free bubble. Lines remaining were tested individually for P.pneumotropica. All lines are now negative for P.pneumotropica in bubble 6.