

Area 1: Biobubbles 7 & 10

Cage Type/Containment system

 Sampling System Used
 1. Soiled Bedding Sentinel (SBS)[†]
 2. Random Sample (RS)

 Age at introduction
 4 -6 wks

 Age at sampling
 12-14 wks

	Feb-11	May-11	Aug-11	Nov-11	Sample System	Sample Type	Test Type
	pos/neg	pos/neg	pos/neg	pos/neg			
Viruses							
Mouse Hepatitis Virus	0/6	0/16	0/17	0/18	SBS	Serum	EIA/IFA
Mouse Parvovirus	0/6	0/16	0/17	0/18	SBS	Serum	EIA/IFA
Minute Virus of Mice	0/6	0/16	0/17	0/18	SBS	Serum	EIA/IFA
Mouse Rotavirus	0/6	0/16	0/17	0/18	SBS	Serum	EIA/IFA
Theiler's Encephalomyelitis virus	0/6	0/16	0/17	0/18	SBS	Serum	EIA/IFA
Mouse Norovirus	0/6	0/16	0/17	0/18	SBS	Serum	EIA/IFA
Pneumonia Virus of Mice	0/6	0/16	0/17	0/18	SBS	Serum	EIA/IFA
Adenovirus Type 1&2	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
Ectromelia	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
Hantavirus	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
LCMV	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
Murine Cytomegalovirus	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
Polyoma Virus	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
Reovirus Type 3	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
Sendai Virus	0/6	0/16	0/17	0/18	SBS	Serum	EIA/IFA
Bacteria							
Mycoplasma pulmonis	0/6	0/16	0/17	0/18	SBS	Serum	EIA/IFA
Helicobacter spp	0/6	0/16	0/17	0/18	RS&SBS	Soiled Faec	PCR
Citrobacter rodentium	0/6	NT	0/17	NT	SBS	Caecum	Culture
Staphylococcus aureus	0/6	NT	0/17	NT	SBS	NT wash	Culture
Pseudomonas aeruginosa	0/6	NT	0/17	NT	SBS	Intestine	Culture
Streptococci (beta haem)	0/6	NT	0/17	NT	SBS	NT wash	Culture
Salmonella spp	0/6	NT	0/17	NT	SBS	Intestine	Culture
Pasteurella pneumotropica	0/6	NT	0/17	NT	SBS	NT wash	Culture
CAR Bacillus	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
Clostridium piliforme	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
Corynebacterium kutscheri	0/6	NT	0/17	NT	SBS	NT wash	Culture
Klebsiella pneumoniae	0/6	NT	0/17	NT	SBS	NT wash	Culture
Streptococcus pneumoniae	0/6	NT	0/17	NT	SBS	NT wash	Culture
Parasites							
Ectoparasites	0/6	NT	0/17	NT	SBS	Pelage	TT/Visual
						Caecal contents & pooled faeces	
Syphacia spp	0/6	0/16	0/17	0/18	SBS	faeces	TT/FF/WM
						Caecal contents & pooled faeces	
Aspicularis spp	0/6	0/16	0/17	0/18	SBS	faeces	TT/FF/WM
Giardia spp	0/6	NT	0/17	NT	SBS	Intestine	Wet Mount
Eimeria spp (intestinal)	0/6	NT	0/17	NT	SBS	Intestine	Wet Mount
Spiroplasma spp	0/6	NT	0/17	NT	SBS	Intestine	Wet Mount
Cryptosporidium	0/6	NT	0/17	NT	SBS	Intestine	Histo
Encephalitozoon cuniculi	0/6	NT	0/17	NT	SBS	Serum	EIA/IFA
Klossiella spp	0/6	NT	0/17	NT	SBS	Intestine	Wet Mount
Hymenolepis nana	0/6	NT	0/17	NT	SBS	Intestine:Faeces	FF/WM
Fungi							
Pneumocystis carinii	NT	NT	0/8	NT	RS	Lung	Histo:PCR

Area 2: Biobubbles 1,3,4,6,8 & 9

	Feb-11	May-11	Aug-11	Nov-11	Sample System	Sample Type	Test Type
Viruses	pos/neg	pos/neg	pos/neg	pos/neg			
Mouse Hepatitis Virus	0/62	0/68	0/59	0/59	SBS	Serum	EIA/IFA
Mouse Parvovirus	0/62	0/68	^a 0/59	^b 2/59	SBS	Serum	EIA/IFA
Minute Virus of Mice	0/62	0/68	0/59	0/59	SBS	Serum	EIA/IFA
Mouse Rotavirus	0/62	0/68	0/59	0/59	SBS	Serum	EIA/IFA
Theiler's Encephalomyelitis virus	0/62	0/68	0/59	0/59	SBS	Serum	EIA/IFA
Mouse Norovirus	0/62	0/68	0/59	0/59	SBS	Serum	EIA/IFA
Pneumonia Virus of Mice	0/62	0/68	0/59	0/59	SBS	Serum	EIA/IFA
Adenovirus Type 1&2	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
Ectromelia	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
Hantavirus	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
LCMV	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
Murine Cytomegalovirus	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
Polyoma Virus	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
Reovirus Type 3	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
Sendai Virus	0/62	0/68	0/59	0/59	SBS	Serum	EIA/IFA
Bacteria							
Mycoplasma pulmonis	0/62	0/68	0/59	0/59	SBS	Serum	EIA/IFA
Helicobacter spp	0/62	0/68	0/59	0/59	RS&SBS	pooled Faec	PCR
Citrobacter rodentium	0/62	NT	0/59	NT	SBS	Caecum	Culture
Staphylococcus aureus	0/62	NT	0/59	NT	SBS	NT wash	Culture
Pseudomonas aeruginosa	0/62	NT	0/59	NT	SBS	Intestine	Culture
Streptococci (beta haem)	0/62	NT	0/59	NT	SBS	NT wash	Culture
Salmonella spp	0/62	NT	0/59	NT	SBS	Intestine	Culture
Pasteurella pneumotropica	0/62	NT	0/59	NT	SBS	NT wash	Culture
CAR Bacillus	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
Clostridium piliforme	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
Corynebacterium kutscheri	0/62	NT	0/59	NT	SBS	NT wash	Culture
Klebsiella pneumoniae	0/62	NT	0/59	NT	SBS	NT wash	Culture
Streptobacillus moniliformis	0/62	NT	0/59	NT	SBS	NT wash	Culture
Streptococcus pneumoniae	0/62	NT	0/59	NT	SBS	NT wash	Culture
Parasites							
Ectoparasites	0/62	NT	0/59	NT	SBS	Pelage	TT/Visual
						Caecal contents & pooled faeces	
Syphacia spp	0/62	0/68	0/59	0/59	SBS	faeces	TT/FF/WM
						Caecal contents & pooled faeces	
Aspicularis spp	0/62	0/68	0/59	0/59	SBS	faeces	TT/FF/WM
Giardia spp	0/62	NT	0/59	NT	SBS	Intestine	Wet Mount
Eimeria spp (intestinal)	0/62	NT	0/59	NT	SBS	Intestine	Wet Mount
Spironucleus spp	0/62	NT	0/59	NT	SBS	Intestine	Wet Mount
Cryptosporidium	0/62	NT	0/59	NT	SBS	Intestine	Histo
Encephalitozoon cuniculi	0/62	NT	0/59	NT	SBS	Serum	EIA/IFA
Fungi							
Pneumocystis carinii	NT	NT	NT	NT	RS	Lung	Histo:PCR

Area 3: Biobubble 11

	Feb-11	May-11	Aug-11	Nov-11	Sample System	Sample Type	Test Type
Viruses	pos/neg	pos/neg	pos/neg	pos/neg			
Mouse Hepatitis Virus	0/2	0/2	0/2	0/3	SBS	Serum	EIA/IFA
Mouse Parvovirus	0/2	0/2	0/2	^c 1/3	SBS	Serum	EIA/IFA
Minute Virus of Mice	0/2	0/2	0/2	0/3	SBS	Serum	EIA/IFA
Mouse Rotavirus	0/2	0/2	0/2	0/3	SBS	Serum	EIA/IFA
Theiler's Encephalomyelitis virus	0/2	0/2	0/2	0/3	SBS	Serum	EIA/IFA
Mouse Norovirus	0/2	0/2	0/2	0/3	SBS	Serum	EIA/IFA
Pneumonia Virus of Mice	0/2	0/2	0/2	0/3	SBS	Serum	EIA/IFA
Adenovirus Type 1&2	0/2	NT	0/2	0/2	SBS	Serum	EIA/IFA
Ectromelia	0/2	NT	0/2	NT	SBS	Serum	EIA/IFA
Hantavirus	0/2	NT	0/2	NT	SBS	Serum	EIA/IFA
LCMV	0/2	NT	0/2	NT	SBS	Serum	EIA/IFA

Murine Cytomegalovirus	0/2	NT	0/2	NT	SBS	Serum	EIA/IFA
Polyoma Virus	0/2	NT	0/2	NT	SBS	Serum	EIA/IFA
Reovirus Type 3	0/2	NT	0/2	NT	SBS	Serum	EIA/IFA
Sendai Virus	0/2	0/2	0/2	0/2	SBS	Serum	EIA/IFA

Bacteria

Mycoplasma pulmonis	0/2	0/2	0/2	0/2	SBS	Serum	EIA/IFA
Helicobacter spp	0/2	0/2	0/2	0/2	RS&SBS	pooled Faec	PCR
Citrobacter rodentium	0/2	NT	0/2	NT	SBS	Caecum	Culture
Staphylococcus aureus	0/2	NT	0/2	NT	SBS	NT wash	Culture
Pseudomonas aeruginosa	0/2	NT	0/2	NT	SBS	Intestine	Culture
Streptococci (beta haem)	0/2	NT	0/2	NT	SBS	NT wash	Culture
Salmonella spp	0/2	NT	0/2	NT	SBS	Intestine	Culture
Pasteurella pneumotropica	0/2	NT	0/2	NT	SBS	NT wash	Culture
CAR Bacillus	0/2	NT	0/2	NT	SBS	Serum	EIA/IFA
Clostridium piliforme	0/2	NT	0/2	NT	SBS	Serum	EIA/IFA
Corynebacterium kutscheri	0/2	NT	0/2	NT	SBS	NT wash	Culture
Klebsiella pneumoniae	0/2	NT	0/2	NT	SBS	NT wash	Culture
Streptobacillus moniliformis	0/2	NT	0/2	NT	SBS	NT wash	Culture
Streptococcus pneumoniae	0/2	NT	0/2	NT	SBS	NT wash	Culture

Parasites

Ectoparasites	0/2	NT	0/2	NT	SBS	Pelage	TT/Visual
						Caecal contents & pooled faeces	
Syphacia spp	0/2	0/2	0/2	0/2	SBS	Caecal contents & pooled faeces	TT/FF/WM
						Caecal contents & pooled faeces	
Aspicularis spp	0/2	0/2	0/2	0/2	SBS	Intestine	TT/FF/WM
Giardia spp	0/2	NT	0/2	NT	SBS	Intestine	Wet Mount
Eimeria spp (intestinal)	0/2	NT	0/2	NT	SBS	Intestine	Wet Mount
Spironucleus spp	0/2	NT	0/2	NT	SBS	Intestine	Wet Mount
Cryptosporidium	0/2	NT	0/2	NT	SBS	Intestine	Histo
Encephalitozoon cuniculi	0/2	NT	0/2	NT	SBS	Serum	EIA/IFA

Fungi

Pneumocystis carinii	NT	NT	NT	NT	RS	Lung	Histo:PCR
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Explanatory notes

a. One sentinel in bubble 1 was positive on ELISA to mouse parvovirus. Extensive testing of mice in this bubble using serology, PCR on faeces and PCR on mesenteric lymph nodes failed to confirm this positive.

b. Two sentinels (one in bubble 8, one in bubble 9) both originating from bubble 11, tested positive for mouse parvovirus. Extensive testing in bubbles 8 & 9 failed to detect mouse parvovirus. Bubble 11 appears to be the source of the infection.

c. One sentinel in bubble 11 tested positive to mouse parvovirus on ELISA confirmed with IFA. Subsequent serology and PCR on mesenteric lymph nodes confirmed further positives. The infection is likely to have originated from lines rederived in bubble 11. We are in the process of eliminating the infection. For further information please contact enquiries@abr.org.au

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