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Area 1: Biobubbles 7 & 11

Cage Type/Containment system Exhaust ventilated caging in biobubbles

Sampling System Used	Cages/sentinel	Age at introduction	Age at sampling
1. Soiled Bedding Sentinel (SBS) ¹	Approx. 60	4 -6 wks	12-14 wks
2. Random Sample (RS)			

Viruses	Feb-09	May-09	Aug-09	Nov-09	Sample System	Sample Type	Test Type
	pos/neg	pos/neg	pos/neg	pos/neg			
Mouse Hepatitis Virus	0/6	0/5	0/5	0/5	SBS	Serum	EIA/IFA
Mouse Parvovirus	0/6	0/5	0/5	0/5	SBS	Serum	EIA/IFA
Minute Virus of Mice	0/6	0/5	0/5	0/5	SBS	Serum	EIA/IFA
Mouse Rotavirus	0/6	0/5	0/5	0/5	SBS	Serum	EIA/IFA
Theiler`s							
Encephalomyelitis virus	0/6	0/5	0/5	0/5	SBS	Serum	EIA/IFA
Mouse Norovirus	0/6	0/5	0/5	0/5	SBS	Serum	EIA/IFA
Pneumonia Virus of Mice	0/6	0/5	0/5	0/5	SBS	Serum	EIA/IFA
Adenovirus Type 1&2	0/6	NT	0/5	NT	SBS	Serum	EIA/IFA
Ectromelia	0/6	NT	0/5	NT	SBS	Serum	EIA/IFA
Hantavirus	0/6	NT	NT	NT	SBS	Serum	EIA/IFA
LCMV	0/6	NT	0/5	NT	SBS	Serum	EIA/IFA
Murine Cytomegalovirus	0/6	NT	0/5	NT	SBS	Serum	EIA/IFA

Polyoma Virus	0/6	NT	NT	NT	SBS	Serum	EIA/IFA
Reovirus Type 3	0/6	NT	0/5	NT	SBS	Serum	EIA/IFA
Sendai Virus	0/6	NT	0/5	NT	SBS	Serum	EIA/IFA
Bacteria							
Mycoplasma pulmonis	0/6	0/5	0/5	0/5	SBS	Serum	EIA/IFA
Helicobacter spp	0/6	0/5	0/5	0/5	RS&SBS	Pooled Faeces	PCR
Citrobacter rodentium	0/6	NT	0/6	NT	SBS	Caecum	Culture
Staphylococcus aureus	0/6	NT	0/6	NT	SBS	NT wash	Culture
Pseudomonas aeruginosa	0/6	NT	0/6	NT	SBS	Intestine	Culture
Streptococci (beta haem)	0/6	NT	0/6	NT	SBS	NT wash	Culture
Salmonella spp	0/6	NT	0/6	NT	SBS	Intestine	Culture
Pasteurella pneumotropica	0/6	NT	0/6	NT	SBS	NT wash	Culture
CAR Bacillus	0/6	NT	NT	NT	SBS	Serum	EIA/IFA
Clostridium piliforme	0/6	NT	NT	NT	SBS	Serum	EIA/IFA
Corynebacterium kutscheri	0/6	NT	0/6	NT	SBS	NT wash	Culture
Klebsiella pneumoniae	0/6	NT	0/6	NT	SBS	NT wash	Culture
Streptobacillus moniliformis	0/6	NT	0/6	NT	SBS	NT wash	Culture
Streptococcus pneumoniae	0/6	NT	0/6	NT	SBS	NT wash	Culture
Parasites							
Ectoparasites	0/6	NT	0/6	NT	SBS	Pelage Caecal contents & pooled	TT/Visual
Syphacia spp	0/6	0/5	0/6	0/5	SBS	faeces Caecal contents & pooled	TT/FF/WM
Aspicularis spp	0/6	0/5	0/6	0/5	SBS	faeces	TT/FF/WM
Giardia spp	0/6	NT	0/6	NT	SBS	Intestine	Wet Mount
Eimeria spp (intestinal)	0/6	NT	0/6	NT	SBS	Intestine	Wet Mount
Spiroucleus spp	0/6	NT	0/6	NT	SBS	Intestine	Wet Mount
Cryptosporidium	0/6	NT	0/6	NT	SBS	Intestine	Histo
Encephalitozoon cuniculi	0/6	NT	0/6	NT	SBS	Serum	EIA/IFA

Klossiella spp	0/6	NT	0/6	NT	SBS	Intestine	Wet Mount
Hymenolepis nana	0/6	NT	0/6	NT	SBS	Intestine:Faeces	FF/WM
Fungi							
Pneumocystis carinii	0/3	NT	NT	NT	RS	Lung	Histo:PCR

Area 2: Biobubbles	4 & 6
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	Feb-09	May-09	Aug-09	Nov-09	Sample System	Sample Type	Test Type
Viruses	pos/neg	pos/neg	pos/neg	pos/neg			
Mouse Hepatitis Virus	0/20	0/20	0/20	0/20	SBS	Serum	EIA/IFA
Mouse Parvovirus	0/20	0/20	0/20	0/20	SBS	Serum	EIA/IFA
Minute Virus of Mice	0/20	0/20	0/20	0/20	SBS	Serum	EIA/IFA
Mouse Rotavirus	0/20	0/20	0/20	0/20	SBS	Serum	EIA/IFA
Theiler's							
Encephalomyelitis virus	0/20	0/20	0/20	0/20	SBS	Serum	EIA/IFA
Mouse Norovirus	0/20	0/20	0/20	0/20	SBS	Serum	EIA/IFA
Pneumonia Virus of Mice	0/20	0/20	0/20	0/20	SBS	Serum	EIA/IFA
Adenovirus Type 1&2	0/20	NT	0/20	NT	SBS	Serum	EIA/IFA
Ectromelia	0/20	NT	0/20	NT	SBS	Serum	EIA/IFA
Hantavirus	0/20	NT	NT	NT	SBS	Serum	EIA/IFA
LCMV	0/20	NT	0/20	NT	SBS	Serum	EIA/IFA
Murine Cytomegalovirus	0/20	NT	0/20	NT	SBS	Serum	EIA/IFA
Polyoma Virus	0/20	NT	NT	NT	SBS	Serum	EIA/IFA
Reovirus Type 3	0/20	NT	0/20	NT	SBS	Serum	EIA/IFA
Sendai Virus	0/20	NT	0/20	NT	SBS	Serum	EIA/IFA
Bacteria							
Mycoplasma pulmonis	0/20	0/20	0/20	0/20	SBS	Serum	EIA/IFA
Helicobacter spp	0/20	0/20	0/20	0/20	RS&SBS	Pooled Faeces	PCR
Citrobacter rodentium	0/20	NT	0/20	NT	SBS	Caecum	Culture
Staphylococcus aureus	1/19	NT	0/20	NT	SBS	NT wash	Culture
Pseudomonas aeruginosa	0/20	NT	0/20	NT	SBS	Intestine	Culture
Streptococci (beta haem)	0/20	NT	0/20	NT	SBS	NT wash	Culture

Salmonella spp	0/20	NT	0/20	NT	SBS	Intestine	Culture
Pasteurella pneumotropica	1/19	NT	0/20	NT	SBS	NT wash	Culture
CAR Bacillus	0/20	NT	NT	NT	SBS	Serum	EIA/IFA
Clostridium piliforme	0/20	NT	NT	NT	SBS	Serum	EIA/IFA
Corynebacterium kutscheri	0/20	NT	0/20	NT	SBS	NT wash	Culture
Klebsiella pneumoniae	0/20	NT	0/20	NT	SBS	NT wash	Culture
Streptobacillus moniliformis	0/20	NT	0/20	NT	SBS	NT wash	Culture
Streptococcus pneumoniae	0/20	NT	0/20	NT	SBS	NT wash	Culture
Parasites							
Ectoparasites	0/20	NT	0/20	NT	SBS	Pelage Caecal contents & pooled faeces	TT/Visual
Syphacia spp	0/20	0/20	0/20	0/20	SBS	Caecal contents & pooled faeces	TT/FF/WM
Aspicularis spp	0/20	0/20	0/20	0/20	SBS	Intestine	TT/FF/WM
Giardia spp	0/20	NT	0/20	NT	SBS	Intestine	Wet Mount
Eimeria spp (intestinal)	0/20	NT	0/20	NT	SBS	Intestine	Wet Mount
Spironucleus spp	0/20	NT	0/20	NT	SBS	Intestine	Wet Mount
Cryptosporidium	0/20	NT	0/20	NT	SBS	Intestine	Histo
Encephalitozoon cuniculi	0/20	NT	0/20	NT	SBS	Serum	EIA/IFA
Klossiella spp	0/20	NT	0/20	NT	SBS	Intestine	Wet Mount
Hymenolepis nana	0/20	NT	0/20	NT	SBS	Intestine:Faeces	FF/WM
Fungi							
Pneumocystis carinii	NT	NT	NT	NT	RS	Lung	Histo:PCR

Notes:

a Staphylococcus (Coag +ve) - 1 positive in BB6 in Feb

b Pasteurella pneumotropica - 1 positive in BB6 in Feb

Area 3: Biobubble 9

	Feb-09	May-09	Aug-09	Nov-09	Sample System	Sample Type	Test Type
	pos/neg	pos/neg	pos/neg	pos/neg			
Viruses							
Mouse Hepatitis Virus	0/9	0/9	0/9	0/10	SBS	Serum	EIA/IFA
Mouse Parvovirus	0/9	0/9	0/9	0/10	SBS	Serum	EIA/IFA
Minute Virus of Mice	0/9	0/9	0/9	0/10	SBS	Serum	EIA/IFA
Mouse Rotavirus	0/9	0/9	0/9	0/10	SBS	Serum	EIA/IFA
Theiler's							
Encephalomyelitis virus	0/9	0/9	0/9	0/10	SBS	Serum	EIA/IFA
Mouse Norovirus	0/9	0/9	0/9	3/15	SBS	Serum	EIA/IFA
Pneumonia Virus of Mice	0/9	0/9	0/9	0/10	SBS	Serum	EIA/IFA
Adenovirus Type 1&2	0/9	NT	0/9	NT	SBS	Serum	EIA/IFA
Ectromelia	0/9	NT	0/9	NT	SBS	Serum	EIA/IFA
Hantavirus	0/9	NT	NT	NT	SBS	Serum	EIA/IFA
LCMV	0/9	NT	0/9	NT	SBS	Serum	EIA/IFA
Murine Cytomegalovirus	0/9	NT	0/9	NT	SBS	Serum	EIA/IFA
Polyoma Virus	0/9	NT	NT	NT	SBS	Serum	EIA/IFA
Reovirus Type 3	0/9	NT	0/9	NT	SBS	Serum	EIA/IFA
Sendai Virus	0/9	NT	0/9	NT	SBS	Serum	EIA/IFA
Bacteria							
Mycoplasma pulmonis	0/9	0/9	0/9	0/10	SBS	Serum	EIA/IFA
Helicobacter spp	0/9	0/9	0/9	1/17	RS&SBS	Pooled Faeces	PCR
Citrobacter rodentium	0/9	NT	0/9	NT	SBS	Caecum	Culture
Staphylococcus aureus	0/9	NT	0/9	NT	SBS	NT wash	Culture
Pseudomonas aeruginosa	0/9	NT	0/9	NT	SBS	Intestine	Culture
Streptococci (beta haem)	0/9	NT	0/9	NT	SBS	NT wash	Culture
Salmonella spp	0/9	NT	0/9	NT	SBS	Intestine	Culture
Pasteurella pneumotropica	0/9	NT	0/9	NT	SBS	NT wash	Culture
CAR Bacillus	0/9	NT	NT	NT	SBS	Serum	EIA/IFA
Clostridium piliforme	0/9	NT	NT	NT	SBS	Serum	EIA/IFA
Corynebacterium kutscheri	0/9	NT	0/9	NT	SBS	NT wash	Culture
Klebsiella pneumoniae	0/9	NT	0/9	NT	SBS	NT wash	Culture

Streptobacillus moniliformis	0/9	NT	0/9	NT	SBS	NT wash	Culture
Streptococcus pneumoniae	0/9	NT	0/9	NT	SBS	NT wash	Culture
Parasites							
Ectoparasites	0/9	NT	0/9	NT	SBS	Pelage	TT/Visual
Syphacia spp	0/9	0/9	0/9	0/10	SBS	Caecal contents & pooled faeces	TT/FF/WM
Aspicularis spp	0/9	0/9	0/9	0/10	SBS	Caecal contents & pooled faeces	TT/FF/WM
Giardia spp	0/9	NT	0/9	NT	SBS	Intestine	Wet Mount
Eimeria spp (intestinal)	0/9	NT	0/9	NT	SBS	Intestine	Wet Mount
Spirochete spp	0/9	NT	0/9	NT	SBS	Intestine	Wet Mount
Cryptosporidium	0/9	NT	0/9	NT	SBS	Intestine	Histo
Encephalitozoon cuniculi	0/9	NT	0/9	NT	SBS	Serum	EIA/IFA
Klossiella spp	0/9	NT	0/9	NT	SBS	Intestine	Wet Mount
Hymenolepis nana	0/9	NT	0/9	NT	SBS	Intestine:Faeces	FF/WM
Fungi							
Pneumocystis carinii	NT	NT	NT	NT	RS	Lung	Histo:PCR

Notes:

a. **Norovirus & Helicobacter**- When 1 sentinel tested positive to Norovirus & Helicobacter in November all lines on the positive rack were re-tested. Three recently imported lines testing positive for Norovirus were immediately removed from Bubble 9 for rederivation. **No lines tested positive to Helicobacter on the re-screen. Regular monthly re-screens on adjacent lines are planned for early 2010.**

Area 4: Biobubbles 1 & 3

Feb-09	May-09	Aug-09	Nov-09	Sample System	Sample Type	Test Type
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Viruses	pos/neg	pos/neg	pos/neg	pos/neg			
Mouse Hepatitis Virus	0/10	0/10	0/15	0/20	SBS	Serum	EIA/IFA
Mouse Parvovirus	0/10	0/10	0/15	0/20	SBS	Serum	EIA/IFA
Minute Virus of Mice	0/10	0/10	0/15	0/20	SBS	Serum	EIA/IFA
Mouse Rotavirus	0/10	0/10	0/15	0/20	SBS	Serum	EIA/IFA
Theiler`s							
Encephalomyelitis virus	0/10	0/10	0/15	0/20	SBS	Serum	EIA/IFA
Mouse Norovirus	0/10	0/10	0/15	1/19	SBS	Serum	EIA/IFA
Pneumonia Virus of Mice	0/10	0/10	0/15	0/20	SBS	Serum	EIA/IFA
Adenovirus Type 1&2	0/10	NT	0/15	NT	SBS	Serum	EIA/IFA
Ectromelia	0/10	NT	0/15	NT	SBS	Serum	EIA/IFA
Hantavirus	0/10	NT	NT	NT	SBS	Serum	EIA/IFA
LCMV	0/10	NT	0/15	NT	SBS	Serum	EIA/IFA
Murine Cytomegalovirus	0/10	NT	0/15	NT	SBS	Serum	EIA/IFA
Polyoma Virus	0/10	NT	NT	NT	SBS	Serum	EIA/IFA
Reovirus Type 3	0/10	NT	0/15	NT	SBS	Serum	EIA/IFA
Sendai Virus	0/10	NT	0/15	NT	SBS	Serum	EIA/IFA
Bacteria							
Mycoplasma pulmonis	0/10	0/10	0/15	0/20	SBS	Serum	EIA/IFA
Helicobacter spp	0/10	1/21	1/21	1/19	RS&SBS	Pooled Faeces	PCR
Citrobacter rodentium	0/10	NT	0/15	NT	SBS	Caecum	Culture
Staphylococcus aureus	1/9	NT	0/15	NT	SBS	NT wash	Culture
Pseudomonas aeruginosa	0/10	NT	0/15	NT	SBS	Intestine	Culture
Streptococci (beta haem)	0/10	NT	0/15	NT	SBS	NT wash	Culture
Salmonella spp	0/10	NT	0/15	NT	SBS	Intestine	Culture
Pasteurella pneumotropica	1/9	NT	0/15	NT	SBS	NT wash	Culture
CAR Bacillus	0/10	NT	NT	NT	SBS	Serum	EIA/IFA
Clostridium piliforme	0/10	NT	NT	NT	SBS	Serum	EIA/IFA
Corynebacterium kutscheri	0/10	NT	0/15	NT	SBS	NT wash	Culture
Klebsiella pneumoniae	0/10	NT	0/15	NT	SBS	NT wash	Culture
Streptobacillus moniliformis	0/10	NT	0/15	NT	SBS	NT wash	Culture
Streptococcus pneumoniae	0/10	NT	0/15	NT	SBS	NT wash	Culture

Parasites

Ectoparasites	0/10	NT	0/15	NT	SBS	Pelage	TT/Visual
Syphacia spp	0/10	0/10	0/15	0/20	SBS	Caecal contents & pooled faeces	TT/FF/WM
Aspicularis spp	0/10	0/10	0/15	0/20	SBS	Caecal contents & pooled faeces	TT/FF/WM
Giardia spp	0/10	NT	0/15	NT	SBS	Intestine	Wet Mount
Eimeria spp (intestinal)	0/10	NT	0/15	NT	SBS	Intestine	Wet Mount
Spironucleus spp	0/10	NT	0/15	NT	SBS	Intestine	Wet Mount
Cryptosporidium	0/10	NT	0/15	NT	SBS	Intestine	Histo
Encephalitozoon cuniculi	0/10	NT	0/15	NT	SBS	Serum	EIA/IFA
Klossiella spp	0/10	NT	0/15	NT	SBS	Intestine	Wet Mount
Hymenolepis nana	0/10	NT	0/15	NT	SBS	Intestine:Faeces	FF/WM

Fungi

Pneumocystis carinii	NT	NT	NT	NT	RS	Lung	Histo:PCR
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Notes:

a. **Helicobacter bubble 3-** In May and Aug one rack tested positive for Helicobacter in bubble 3. On re-screen in May the infected line was detected and removed from bubble 3 for rederivation. When a second line tested positive in Aug the infected line and adjacent lines were placed on medicated feed for Helicobacter.

Helicobacter was not detected in bubble 3 in the November screen. Monthly re-screens are planned for early 2010.

b. **Helicobacter bubble 1** - In November one rack tested positive to Helicobacter in bubble 1. **The re-screen failed to detect any positive lines.** Monthly re-screens are planned for early 2010.

c. **Norovirus bubble 3-** In November one sentinel tested positive to Norovirus. On re-screen one recently imported line was seropositive. The line has been removed from bubble 3 for rederivation. Monthly re-screens are planned for early 2010.

d **Staphylococcus (Coag +ve)** - 1 positive in BB3 in Feb

e.**Pasteurella pneumotropica** - 1 positive in BB3 in Feb

