

BACTERIOLOGY

Cultured bacteria testing is used to detect pathogens unsuitable for serological techniques. Cultures are generated using samples (swabs or faeces) from specific sites on the animal. These can be taken from live animals at our laboratory or shipped as samples (oral, faecal) collected from animals at customer facilities utilising Inotiv's sampling kits for easy collection.

POOLING

Bacterial testing permits the pooling of samples. We recommend up to two (2) samples be pooled for oral or fur swabs. Environmental samples, as well as faecal samples for rtPCR, can be tested up to a maximum of ten (10) into one, single sample.

A panel of microbiological agents by species for bacteriology is listed below. Clearly highlighted are those recommended by FELASA 2014. Several rtPCR panels are available to quickly check for some prevalent agents.

BACTERIOLOGY	TEST METHOD (RTPCR ONLY FOR MOUSE/RAT)	MOUSE	RAT	HAMSTER	G. PIG	RABBIT	SAMPLE TYPE (CAN BE SPECIE SPECIFIC)
<i>Bordetella bronchiseptica</i> ^(4,5)	Culture / rtPCR	✓	✓	✓	✓	✓	LA / F / E / OS
<i>Bordetella hinzii/pseudohinzii</i>	rtPCR	✓	✓	✓	✓	✓	E / OS
CAR bacillus ^(2,5)	ELISA / rtPCR	✓	✓		✓	✓	LA / S / DBS / F / E / OS
<i>Chlamydomphila caviae</i>	IFA				✓		LA / S / DBS
<i>Citrobacter rodentium</i> ⁽¹⁾	Culture / rtPCR	✓	✓				LA / F / E
<i>Clostridium piliforme</i> ^(1,2,3,4,5)	MFIA / ELISA / rtPCR	✓	✓	✓	✓	✓	LA / S / DBS / F / E
<i>Clostridium difficile (toxin A+B)</i>	rtPCR	✓	✓	✓	✓	✓	F / E
<i>Corynebacterium kutscheri</i> ^(1,3,4)	Culture / rtPCR	✓	✓	✓	✓		LA / F / E / OS
<i>Corynebacterium bovis (HAC)</i>	rtPCR	✓	✓				LA / F / E / FS
Dermatophytes	Culture / rtPCR	✓	✓		✓	✓	LA / E / FS
<i>Helicobacter spp.</i> ^(1,2,3) (<i>Bilis, Ganmani, Hepaticus, Mastomyrinus, Rodentium, Typhlonius</i>)	rtPCR	✓	✓	✓			LA / F / E
<i>Klebsiella pneumoniae</i>	Culture / rtPCR	✓	✓	✓	✓		LA / F / E
<i>Klebsiella oxytoca</i>	Culture / rtPCR	✓	✓	✓			LA / F / E
<i>Lawsonia intracellularis</i>	rtPCR			✓			LA / F / E
<i>M pulmonis</i> ^(1,2)	MFIA / ELISA / rtPCR	✓	✓				LA / S / DBS / F / E / OS
<i>Mycoplasma spp.</i> ^(1,2)	rtPCR	✓	✓				LA / S / DBS / F / E / OS
<i>Pasteurella multocida</i> ⁽⁵⁾	Culture / rtPCR			✓		✓	LA / OS
<i>Rodentibacter heylii</i> ^(1,2,3)	Culture / rtPCR	✓	✓	✓	✓		LA / F / E / OS
<i>Rodentibacter pneumotropicus</i> ^(1,2,3)	Culture / rtPCR	✓	✓	✓	✓		LA / F / E / OS
<i>Pneumocystis carinii</i> ⁽²⁾	IFA / rtPCR		✓				LA / S / DBS / F / E / OS
<i>Pneumocystis murina</i>	rtPCR	✓					LA / F / E / OS
<i>Pseudomonas aeruginosa</i>	Culture / rtPCR	✓	✓	✓	✓		LA / F / E
<i>Proteus spp</i>	Culture / rtPCR	✓	✓				LA / F / E
<i>Proteus mirabilis</i>	Culture / rtPCR	✓	✓				LA / F / E
<i>Proteus vulgaris</i>	Culture / rtPCR	✓	✓				LA / F / E
<i>Salmonella spp.</i> ^(1,2,3,4,5)	Culture / rtPCR	✓	✓	✓	✓	✓	LA / F / E
<i>Staphylococcus aureus</i>	Culture / rtPCR	✓	✓	✓	✓	✓	LA / F / E / OS / FS
<i>Staphylococcus xylosum</i>	Culture / rtPCR	✓	✓				LA / F / E / FS
<i>Streptobacillus moniliformis</i> ^(1,2,4)	rtPCR	✓	✓		✓		LA / F / E / OS
<i>Streptococci Beta-haemolytic (Group A)</i> ^(1,2,4)	Culture / rtPCR	✓	✓	✓	✓	✓	LA / F / E / OS
<i>Streptococci Beta-haemolytic (Group B)</i> ^(1,2,4)	Culture / rtPCR	✓	✓	✓	✓	✓	LA / F / E / OS
<i>Streptococci Beta-haemolytic (Group C)</i> ^(1,2,4)	Culture / rtPCR	✓	✓	✓	✓	✓	LA / F / E / OS
<i>Streptococci Beta-haemolytic (Group G)</i> ^(1,2,4)	Culture / rtPCR	✓	✓	✓	✓	✓	LA / F / E / OS
<i>Streptococcus pneumoniae</i> ^(1,2,4)	Culture / rtPCR	✓	✓		✓		LA / F / E / OS
<i>Treponoma paraluisuniculi</i>	HA1					✓	LA / S / DBS
<i>Yersinia pseudotuberculosis</i>	Culture / rtPCR				✓		LA / F / E

- (1) Mouse agents recommended by FELASA 2014 (quarterly and/or annual)
- (2) Rat agents recommended by FELASA 2014 (quarterly and/or annual)
- (3) Hamster agents recommended by FELASA 2014 (quarterly and/or annual)
- (4) Guinea pig agents recommended by FELASA 2014 (quarterly and/or annual)
- (5) Rabbit agents recommended by FELASA 2014 (quarterly and/or annual)

Sample type:

DBS: Dry Blood Spot
 F: Fecal
 FS: Fur Swab
 E: Environmental material (filter, swabs, other)

LA: Live Animal
 OS: Oral Swab
 S: Serum