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 Envigo's sampling kits for easy collection.

Pooling

Bacterial testing permits the pooling of samples. We recommend up to five (5) samples be pooled for oral or fur swabs, but can accept pools up to 10. 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.

For additional questions on serology profiles and pricing, please contact us at:

UK: RMS-UK-Technical-services@envigo.com

EU: healthmonitorlab@envigo.com

BACTERIOLOGY	TEST METHOD (rtPCR only for mouse/rat)	MOUSE	RAT	HAMSTER	G. PIG	RABBIT	SAMPLE TYPE (can be specie specific)
Bordetella bronchiseptica [4,5]	Culture / rtPCR	√	√	√	√	√	LA / F / E / OS
CAR bacillus [2,5]	ELISA / rtPCR	√	√		√	√	LA / S / DBS / F / E / OS
Chlamydophila caviae	IFA				√		LA / S / DBS
Citrobacter rodentium [1]	Culture / rtPCR	√	√				LA / F / E
Clostridium piliforme [1,2,3,4,5]	MFIA / ELISA / rtPCR	√	√	√	√	√	LA / S / DBS / F / E
Corynebacterium kutscheri [1,3,4]	Culture / rtPCR	√	√	√	√		LA / F / E / OS
Corynebacterium bovis (HAC)	rtPCR	√	√				LA / F / E / FS
Dermatophytes	Culture / rtPCR	√	√		√	√	LA / E / FS
Helicobacter spp. [1,2,3] *(Bilis, Hepaticus, Rodentium, Typhlonius)*	rtPCR	√	√	√			LA / F / E
Klebsiella pneumoniae	Culture / rtPCR	√	√	√	√		LA / F / E
Klebsiella oxytoca	Culture / rtPCR	√	√	√			LA / F / E
Lawsonia intracellularis	Culture			√			LA / F / E
Mycoplasma (pulmonis) spp. [1,2]	MFIA / ELISA / rtPCR	√	√				LA / S / DBS / F / E / OS
Pasteurella multocida [5]	Culture / rtPCR			√		√	LA / OS
Pasteurella pneumotropica [1,2,3]	Culture / rtPCR	√	√	√	√		LA / F / E / OS
Pneumocystis carinii [2]	IFA / rtPCR		√				LA / F / E / OS
Pneumocystis murina	rtPCR	√					LA / F / E / OS
Pseudomonas aeruginosa	Culture / rtPCR	√	√	√	√		LA / F / E
Proteus spp.	Culture / rtPCR	√	√				LA / F / E
Salmonella spp. [1,2,3,4,5]	Culture / rtPCR	√	√	√	√	√	LA / F / E
Staphylococcus aureus	Culture / rtPCR	√	√	√	√	√	LA / F / E / OS / FS
Staphylococcus xylosus	Culture / rtPCR	√	√				LA / F / E / FS
Streptobacillus moniliformis [1,2,4]	Culture / rtPCR	√	√		√		LA / F / E / OS
Streptococci Beta-haemolytic (Group A) [1,2,4]	Culture / rtPCR	√	√	√	√	√	LA / F / E / OS
Streptococci Beta-haemolytic (Group B) [1,2,4]	Culture / rtPCR	√	√	√	√	√	LA / F / E / OS
Streptococci Beta-haemolytic (Group C) [1,2,4]	Culture / rtPCR	√	√	√	√	√	LA / F / E / OS
Streptococci Beta-haemolytic (Group G) [1,2,4]	Culture / rtPCR	√	√	√	√	√	LA / F / E / OS
Streptococcus pneumoniae [1,2,4]	Culture / rtPCR	√	√		√		LA / F / E / OS
Treponoma paraluiscuniculi	HAI					√	LA / S / DBS
Yersinia pseudotuberculosis	Culture				√		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