

Health monitoring of mole rat colonies can be conducted through a combination of pathology, microbiology, parasitology and PCR. Also, any kind of custom monitoring is possible.

Different sample types can be used for the different diagnostic procedures:

S - Serum	DS - Dry swab
BS - Blot spot	MS - Microbiology swab (medium swab)
T- Tissue	DSS - Deep skin scrape
F- Feces	FS - Fur swab

VIRUSES

Culture / MALDI-TOF	Sample type	Virology
Corona Virus	F, DS	
Herpes Virus	F, DS	
Rota Virus	F, DS	

BACTERIA / FUNGI

Culture / MALDI-TOF	Sample type	Microbiology
Microbiology (MB)	T, MS	✓
Citrobacter rodentium	T, MS	✓
Corynebacterium kutscheri	T, MS	✓
Klebsiella oxytoca	T, MS	✓
Klebsiella pneumoniae	T, MS	✓
Pasteurellaceae	T, MS	✓
Pseudomonas aeruginosa	T, MS	✓
Salmonella spp.	T, MS	✓
Staphylococcus aureus	T, MS	✓
Streptococci, β-haem. (A,B,C,G)	T, MS	✓
Streptococcus pneumoniae	T, MS	✓

Culture / MALDI-TOF	Sample type	Microbiology
Swab, aerobic	MS	
Swab, anaerobic	MS	
Mycology	MS	

PCR	Sample type	Microbiology
Citrobacter rodentium	F, DS	✓
Clostridium piliforme	F, DS	
Corynebacterium bovis	F, DS	
Corynebacterium kutscheri	F, DS	
Helicobacter spp.	F, DS	✓
Helicobacter bilis		
Helicobacter hepaticus		
Helicobacter typhlonius		
Helicobacter rodentium	F, DS	
Klebsiella oxytoca	F, DS	
Klebsiella pneumoniae	F, DS	
Mycoplasma pulmonis	DS	
Pseudomonas aeruginosa	F, DS	
Proteus mirabilis	F, DS	
Rodentibacter heylii	F, DS	
Rodentibacter pneumotropicus	F, DS	
Staphylococcus aureus	F, DS	
Salmonella spp.	F, DS	
Streptobacillus moniliformis	DS	
Streptococcus agalactiae (B)	DS	
Streptococcus canis (G)	DS	
Streptococcus equi (C)	DS	
Streptococcus pyogenes (A)	DS	
Streptococcus pneumoniae	F, DS	
Bordetella bronchiseptica	DS	
Bordetella hinzii	DS	
Bordetella pseudohinzii	DS	
Filobacterium rodentium (CARB)	DS	
Pneumocystis carinii	T	

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PARASITES

Microscopy, Flotation	Sample type	Parasitology
Endoparasites (ENP)		
Helminths	F	✓
Protozoa	F	✓
Ectoparasites (ECP)	FS	✓
Scabies mites	DSS	

PCR	Sample type	Parasitology
Includes cost of DNA extraction (10,00 €) and PCR. The price for each further PCR examination of the same sample will be 13,70 €.		
Aspicularis tetraptera	F	
Eimeria spp.	F	✓
Entamoeba muris	F	
Cryptosporidium muris	F	✓
Chilomastix spp.	F	
Giardia muris	F	
Hexamastix spp.	F	
Spironucleus muris	F	
Syphacia muris	F	
Syphacia obvelata	F	
Tritrichomonas muris	F	
Myobia musculi	FS	
Myocoptes musculinus	FS	
Radfordia affinis	FS	

Diagnostic service	Method	Pathology
Postmortem examination	Necropsy	✓
Histological exam. (per organ)	Microscopy	