

# Rat Vivum immune deficient panel

The Vivum panel can be applied to perform health monitoring in animals with an impaired immune response. The Vivum immune deficient panels is an optimal combination of bacterial culture, microscopic analysis to check for parasites and molecular diagnosis (PCR). The Vivum panel requires sending of swabs, tapes and faeces and thus no shipment of live animals is needed. Also read our document 'Vivum sampling kit' with general information about this product.

Are you interested in an other testing panel? Please contact QM Diagnostics (qmdiagnosics@qmdiagnosics.org) for assistance to design a made-to-measure screening panel adapted to the requirements of your company.

| RAT VIVUM IMMUNE DEFICIENT PANEL |  | SAMPLE | TECHNIQUE  | 3-MONTHLY | ANNUAL | EXTENSIVE <sup>1</sup> |
|----------------------------------|--|--------|------------|-----------|--------|------------------------|
| AGENT                            |  |        |            |           |        |                        |
| VIRUSES                          | Kilham rat virus (KRV)   | FAECES | PCR        | ●         | ●      |                        |
|                                  | Toolan's H-1 virus (H-1)   |        |            | ●         | ●      |                        |
|                                  | Rat corona virus/Sialoacrydenitis virus (RCV/SDA)  |        |            | ●         | ●      |                        |
|                                  | Rat parvo virus (RPV)  |        |            | ●         | ●      |                        |
| BACTERIA                         | <i>Salmonella</i> spp.   | FAECES | CULTURE    |           | ●      |                        |
|                                  | <i>Clostridium piliforme</i>   |        | ●          | ●         |        |                        |
|                                  | <i>Helicobacter</i> spp.   |        | PCR        | ●         | ●      |                        |
|                                  | <i>Helicobacter bilis</i>  | ●      |            | ●         |        |                        |
|                                  | <i>Mycoplasma pulmonis</i>   | ●      |            | ●         |        |                        |
|                                  | <i>Pasteurella pneumotropica</i>   | SWAB   | CULTURE    | ●         | ●      |                        |
|                                  | <i>Streptococcus pneumoniae</i>  |        |            | ●         | ●      |                        |
|                                  | <i>Streptobacillus moniliformis</i>  |        |            |           | ●      |                        |
|                                  | Streptococci β-heamolytic  |        |            | ●         | ●      |                        |
|                                  | <i>Klebsiella pneumoniae</i>   |        |            |           |        | ●                      |
|                                  | <i>Klebsiella oxytoca</i>  |        |            |           |        | ●                      |
|                                  | <i>Pseudomonas aeruginosa</i>  |        |            |           |        | ●                      |
|                                  | <i>Staphylococcus aureus</i>   |        |            | ●         |        |                        |
| PARASITES                        | Ectoparasites  | TAPE   | MICROSCOPY | ●         | ●      |                        |
|                                  | Endoparasites Pinworms ( <i>Syphacia muris</i> and <i>Aspicularis tetraptera</i> )   | FAECES | PCR        | ●         | ●      |                        |
|                                  | Endoparasites Protozoa ( <i>Giardia</i> spp., <i>Entamoeba</i> spp., <i>Spiroplasma</i> spp., <i>Trichomonas</i> spp., <i>Chilomastix</i> spp., <i>Cryptosporidium</i> spp.) |        |            | ●         | ●      |                        |

<sup>1</sup> The extensive panel consists of opportunistic microorganisms and can be combined with the other Vivum panels