

# Bovine

| Test   | Samples   | Min Volumes  | Test set up <sup>2</sup>      | Notes   | Maximum Expected turnaround |
|--|---|--|-------------------------------|---|-----------------------------|
| <b>ELISA - Antibody test</b><br>IBR (Bovine Herpesvirus-1)<br>BVD (Bovine Viral Diarrhoea Virus)<br>Johnes (MAP)                       | Serum<br>Plasma<br><i>Whole Blood*</i><br>Milk      | 50µl serum<br><br>500µl milk                                 | Monday<br>Wednesday<br>Friday | Regular IBR ELISA is not the same as the marker ELISA<br>Regular BVD ELISA is for antibody detection NOT virus detection which is Antigen ELISA or PCR                    | 3 working days              |
| <b>ELISA - Antibody test</b><br>PI3 (Parainfluenza-3 virus)<br>RSV (Respiratory Syncytial virus)<br><i>M. bovis (Mycoplasma bovis)</i> | Serum<br>Plasma<br><i>Whole Blood*</i>              | 50µl serum   | Tuesday                       | Milk is not a validated sample type.<br>We will test milk samples, however we have no established interpretation  | 7 working days              |
| <b>ELISA - Antibody Test</b><br>Neo (Neospora)<br>Fluke ( <i>Fasciola hepatica</i> )   | Serum<br>Plasma<br><i>Whole Blood*</i><br>Milk      | 50µl serum<br><br>500µl milk                                 | Thursday                      |   | 7 working days              |
| <b>ELISA - Antibody Test</b><br>Lepto (Leptospirosis)  | Serum<br>Plasma<br><i>Whole Blood*</i><br>Milk      | 50µl serum<br><br>500µl milk                                 | Tuesday<br>Thursday           |   | 4 working days              |
| <b>ELISA - Antibody Test</b><br>Ostertagia   | Milk  | 500µl milk   | Tuesday                       |   | 7 working days              |
| <b>ELISA - Antibody Test</b><br>Lungworm   | Serum<br>Plasma<br><i>Whole Blood*</i><br>Milk      | 50µl serum<br><br>500µl milk                                 | Thursday                      |   | 7 working days              |
| <b>ELISA - Antibody Test</b><br>IBR gE marker  | Serum<br>Plasma<br><i>Whole Blood*</i><br>Milk      | 150µl serum<br><br>500µl milk                                | Tuesday O/N                   |   | 7 working days              |
| <b>ELISA - Antigen Test</b><br>BVD (Bovine Viral Diarrhoea Virus)  | Serum<br>Plasma<br><i>Whole Blood*</i>              | 150µl serum  | <b>Wednesday<br/>Friday</b>   | <b>Ear tissue samples are now routinely tested by PCR unless in a positive pool</b>   | 4 working days              |
| <b>ELISA - Antigen Test</b><br>Fluke Coproantigen  | Faeces  | 5g Faeces  | Wednesday                     |   | 7 working days              |
| <b>ELISA - Antigen Test</b><br>Rotavirus<br>Coronavirus  | Faeces<br>Faeces                                    | 1g Faeces<br>1g Faeces                                       | As required                   |   | 7 working days              |
| <b>VNT - Antibody Test</b><br>Rotavirus<br>Coronavirus   | Serum<br>Plasma<br><i>Whole Blood*</i><br>Colostrum | 50µl serum<br><br>20ml colostrum                             | As required                   |   | 7 working days              |
| Total IgG  | Serum<br>Plasma<br><i>Whole Blood*</i><br>Colostrum | 50µl serum<br><br>1ml colostrum                              | As required                   |   | 7 working days              |
| <b>Virus Detection - PCR</b><br>BVD (Bovine Viral Diarrhoea Virus)   | Serum<br>Milk<br>Ear Tissue<br>Semen                | 150µl serum<br>2ml milk<br>1 ear tissue sample<br>50µl semen | <b>Tuesday<br/>Thursday</b>   | Serum MUST be from red top tube, heparin (green tops) cannot not be tested by PCR<br><b>Samples must be received the day before the test as they are pooled/aliquoted</b> | 4 working days              |
| <b>Virus Detection - PCR</b><br>Johnes (MAP)   | Faeces  | 1g faeces<br>in small rigid container                        | Wednesday                     | Faeces is a validated sample type, Milk/Colostrum/Culture material can be tested but not covered by ISO17025  | 7 working days              |
| <b>Virus Detection - PCR</b><br>Mastitis Pathogens   | Milk  | 1ml  | Tuesday<br>Thursday           |   | 4 working days              |
| <b>Virus Detection - PCR</b><br>Respiratory PCR  | Plain dry swab<br>BAL<br>Tissue                     | 1 swab<br>Min 5ml<br>Small piece of tissue                   | Thursday                      | Plain Dry swab is most suitable swab type<br><b>NOT</b> gel/agar swabs, others on request<br>Ensure strict transport procedures are adhered too                           | 7 working days              |

2 = Additional tests set up in busy season as required

Serum from red top tubes can be used for all tests, plasma from heparin (green top tubes) CANNOT be used for PCR.

Preferable to add preservative to milk samples but we can test without preservative. Preserved samples are highly recommended for Mastitis PCR.

µl = microlitre. 1000µl = 1ml (1 millilitre)