

## **InSight V3 Plus Haematology Analyser Synovial Fluid Samples**

- 1 Prepare the synovial fluid sample by adding hyaluronidase solution to the synovial fluid. Add 100µL of hyaluronidase per 1ml of synovial fluid using a 100µL pipette.
- 2 Mix by gentle inversion for at least ten seconds; leave the sample to stand for five minutes at room temperature.
- 3 Follow the standard start up procedure for the InSight V3 Plus haematology analyser; define species and enter an I.D. number for the sample.
- 4 Remix the sample by gentle inversion for a further 15-30 seconds and immediately aspirate into the InSight V3 cell counter. If there is any delay prior to aspirating the sample, make sure it is re-mixed by inversion just before aspiration.
- 5 After processing by the InSight V3 analyser, note the cell counts for red cells and white cells, multiply the red cell and white cell results by 1.1. If either of the counts is greater than the upper range of the analyser dilute the sample 1:1 with saline, re-mix and aspirate. If the sample required dilution multiply the results by the dilution factor to obtain actual values for the original sample.
- 6 Process any further synovial fluid samples following sections 1,2,4 and 5
- 7 Aspirate InSight V3 analyser with probe cleaner prior to running other samples.
- 8 Cytological stained slides may be made from the hyaluronidase treated samples.

### **Preparation of Hyaluronidase solution**

Hyaluronidase from sheep testes, lyophilised powder Type II  
From Woodley Equipment Company, Catalogue No. WD0167

Potency of lyophilised material approximately 300 – 500 units per mg

Dissolve powder into 0.9% sterile saline solution to give a final concentration of approximately 500 units per ml. E.g. If potency is 400 units per mg, dissolve 100mg of powder into 80ml 0.9% saline to give 500 units per ml. Aliquot into 10 ml vials and store frozen until required. Will keep frozen for 6 months and at +4°C for two months.