

DeepScan

Sample collection protocol for CFD test

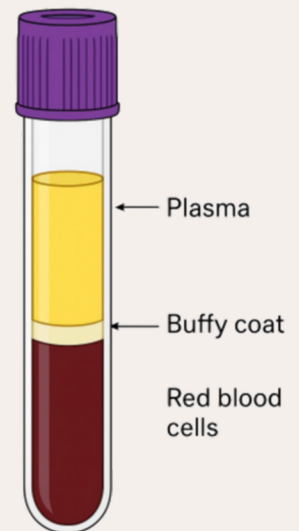
IMPORTANT: Following this protocol gives the most accurate test results. The test has been validated for 1 mL of EDTA plasma. *Hemolysis can compromise test results. If hemolysis is observed, collect a fresh sample from a different vein.*

1. SAMPLING

- Collect at least 3 mL of blood from a vein into **an EDTA tube without gel** (serum or heparin plasma is not suitable because they affect test results)
 - CFD test **requires at least 1 mL of plasma**. Sending 2 mL will allow follow up tests if needed
- Clean the venipuncture site with an appropriate antiseptic solution
 - Allow the disinfectant to fully air-dry before proceeding with the venipuncture
- **Avoid hemolysis** by handling the sample gently
 - If blood flow is particularly slow or if a hematoma appears, perform a new puncture
- After sample collection, gently invert the EDTA tube 8-10 times
- **Separate the plasma within 2 hrs** from the sampling
 - If this is not possible, store the blood sample in a fridge (do not freeze!) and separate plasma within the same day

2. PLASMA SEPARATION

- If samples have been stored in a fridge, allow them to reach room temperature (about 15-30 min)
- Centrifuge the EDTA tubes at $1800 \times g$ for 10 minutes at room temperature
- Carefully transfer the plasma sample (max 2 mL) into a clean 1.5-2 mL sample storage tube
 - The sample storage tube must be resistant to freezing (-110°F) and should not bind DNA (e.g., IDEXX Sample Transfer Tube, 1.5 mL non-additive)
 - **Ensure that 0.2 inches of plasma is left above the buffy coat** marked in the image on the right to avoid including any white blood cells in the plasma tube



3. PLASMA STORAGE

- Immediately after transferring the plasma, label the storage tube with the unique **Test ID generated by DeepScan's platform**. Then store the tube in a regular freezer (or colder) until ready for transport