Quantification of Ferritin in human serum/plasma using ELISA

Ferritin is a ubiquitous intracellular protein that stores iron and releases it in a controlled fashion. Ferritin is secreted into serum where it functions as an iron carrier. Plasma/serum ferritin is an indirect marker of the total amount of iron stored in the body, hence used as a diagnostic test for iron deficiency/anemia.

The reference interval for ferritin are 20 – 300 mg/ml. Low values indicate depleted iron storage while high values do not indicate may occur even when iron deficient. Extreme values with hemochromatosis and leukaemia.

Vitas AM-039 is a direct sandwich ELISA quantification method for ferritin in serum/plasma.

**Method details:**
- **Technique:** Sandwich ELISA
- **Sample Matrix:** Plasma, serum
- **Species:** All
- **Anticoagulant:** All
- **Sample volume:** 50 µL
- **Shipping:** Dry Ice
- **Method Range:** 10-800 mg/ml
- **LOD:** 0.5 ng/ml
- **Precision:** 4.5 %
- **Accuracy:** Kit QC, Comp with external lab

Calibration curve for the quantification of ferritin in human serum

\[ y = 0.5649 \ln(x) - 1.2165 \]
\[ R^2 = 0.9804 \]

Vitas is a Norwegian GMP certified chemical analysis contract lab, with 20 years experience in providing a high quality, custom chromatographic analytical service based on cutting-edge knowledge and technology.