

## Quantification of Vitamin B12 in humans serum/plasma using a microbiological test kit

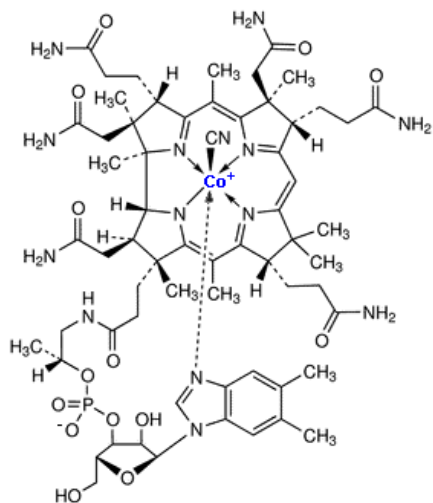
Vitamin B12, also called cobalamin, is a water-soluble vitamin with a key role in the normal functioning of the brain and nervous system, and for the formation of blood. It is one of the eight B vitamins. It is normally involved in the metabolism of every cell of the human body, especially affecting DNA synthesis and regulation, but also fatty acid metabolism and amino acid metabolism.

The reference interval for vitamin B12 is 180-914 pg/ml. Excessive values are seen a long time after B12 treatment. Lower values observed with e.g. anaemia, malabsorption and with vegetarians.

The Vitas AM-175 Vitamin B12 method is a microtiter plate test kit based on a microbiological assay which measures the total Vitamin B12 content in serum.

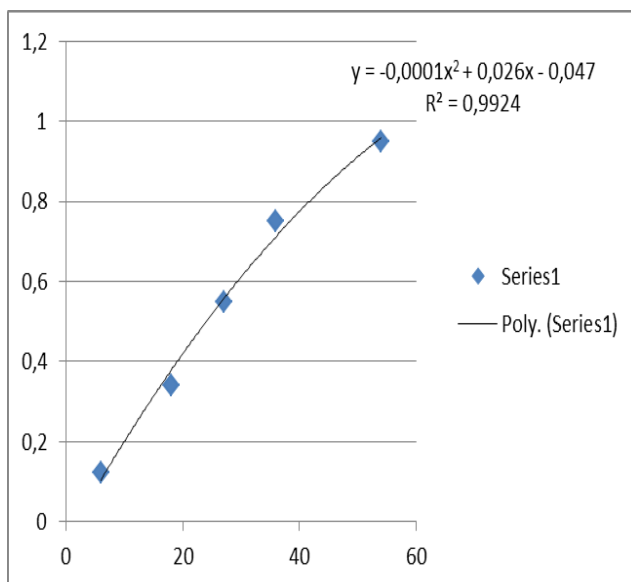
### Method details:

- Technique: Microbiological kit
- Sample Matrix: Plasma ,serum
- Species: All
- Anticoagulant: All
- Required sample volume: 100  $\mu$ L
- Shipping: Dry Ice, protect from light
- Method Range : 150-1350 pg/ml
- LOD: n.a.
- Precision: 5.4 %
- Accuracy: NIST SRM-1950



Vitamin B12

Calibration curve for the quantification of Vitamin B12 in human serum



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.