



# FREE 25OH VITAMIN D ELISA

## → SIMPLE-ACCURATE-AND-DIRECT

- Direct Measurement of Free 25OH Vitamin D
- No sample Pre-treatment
- Low volume: 10µL volume
- Calibrated against Rate Dialysis

## → CLINICAL APPLICATIONS

⊗ Free 25OH Vitamin D is a novel laboratory biomarker for **Vitamin D Status monitoring in Woman Health:**

- Human Pregnancy
- In-Vitro Fertilization
- The use of Oral Contraceptives

⊗ Free 25OH Vitamin D seems to be a better marker of **Vitamin D status than total 25OH Vitamin D for:**

- Obesity/Insulin
- Kidney disease/Dialysis patients
- Cancer
- Respiratory disease
- Liver disease
- Renal disease
- Osteoporosis/Bone mineral density
- Intensive care

⊗ The measurement of Free 25OH Vitamin D helps to reduce the inter-racial Vitamin D status variation, by mitigating the differences in the affinity of the different forms of the Vitamin D Binding Protein. More particularly in studies in which the following populations are represented:

- Black
- Hispanic
- Asian

## → SCIENTIFIC CONCEPT

According to the free hormone hypothesis the biological activity of the hormone is directly linked to the concentration of its free form:

- 25OH Vitamin D is for >99,9% bound to binding proteins: 90% to DBP, 10% to Albumin
- About 0,04% circulates as the free form = "Free 25OH Vitamin D"
- All current 25OH Vitamin D assays measure the sum of the bound and free forms, and do not reflect the concentration of the free hormone.