

FREE 25OH VITAMIN D ELISA

> SIMPLE-ACCURATE-AND-DIRECT MEASUREMENT ASSAY

→ WHY YOU SHOULD USE THE DIASOURCE FREE VITAMIN D KIT

- ① 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
- ② Free 25OH Vitamin D seems to be a better marker of Vitamin D status than total 25OH Vitamin D for:
 - Conditions affecting the binding proteins concentrations
 - Obesity/Insulin
 - Pregnancy
 - Cancer
 - Respiratory disease
 - Liver disease
 - Renal disease
 - Osteoporosis/Bone mineral density
 - Intensive care
 - Ethnic groups having polymorphic forms of DBP with different affinities for 25OH Vitamin D
 - Black
 - Hispanic
 - Asian
- ⊗ Following methods for measuring free 25OH Vitamin D exist:
 - Centrifugal ultrafiltration – accurate but long and tedious
 - Calculations – requires 3 assays and can be inaccurate
 - Direct measurement by ELISA – simple and accurate
- ⊗ DIAsource offers the only direct measurement assay in the market as an RUO, but
 - CE REGISTRATION EXPECTED IN Q1-2017
 - FDA REGISTRATION EXPECTED IN Q4-2017

> OUR OFFERING

If you need support for internal validation and/or for a study design of our free Vitamin D ELISA test in your laboratory please contact Diasource:

+ COMMERCIAL INFORMATION

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+ ORDERING INFORMATION

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CAT#	Product Description	Format
KARF1991	Free 25OH Vitamin D ELISA	Kit 96 assays

⊗ REFERENCES:

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- SCHWARTZ J.B. (2014), A comparison of direct and calculated free 25(OH) Vitamin D levels in clinical populations, J. Clin. Endocrinol. Metab., 99(5):1631-7.
- BIKLE D. (2013), Variability in free 25(OH) vitamin D levels in clinical populations, J. Steroid Biochem. Mol. Biol., S0960-0760.

More references in our Technical Review 2014-02.

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