Version 15-04/24

User's Manual

Vitamin B5 ELISA Kit

REF **DEIA-BY054**

1 Kit (96T), 1 Pack (96T×5), 1 Pack (96T×50)

RUO

This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

Creative Diagnostics

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PRODUCT INFORMATION

Intended Use

Vitamin B5 ELISA (Enzyme-Linked Immunosorbent Assay) kit is intended for the quantitative determination of Vitamin B5 residue in B-complex Vitamin tablets, energy drinks, and infant milk powder.

General Description

Vitamin B5, also known as pantothenic acid (PA), is a water-soluble Vitamin B and an essential nutrient. All animals require pantothenic acid in order to synthesize coenzyme A (CoA) – essential for fatty acid metabolism – as well as to, in general, synthesize and metabolize proteins, carbohydrates, and fats. It also plays a vital role in the development of the central nervous system, steroid secretion, skin and hair health, and antibody synthesis. Human deficiency is very rare, because at least small quantities of pantothenic acid are found in nearly every food. The adequate intake (AI) level has been set at 1.8 mg/day for infants, 3 mg/day for children, 5 mg/day for adults and 7 mg/day for pregnant and lactating women. (Pantothenic acid: Fact Sheet for Health Professionals. 2020; Efsa Panel on Dietetic Products & Allergies. 2014)

Storage

Store the unopened product at 2-8°C. Do not use past expiration date. The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended below.

Precision

<10%

Detection Range

64.44-628.84 ng/mL

Sensitivity

201.31 ng/mL

Specificity

Vitamin B5 100% Vitamin B1 <0.1% Vitamin B2 100% Vitamin B3 <0.1% Vitamin B6 <0.1% Vitamin B7 <0.1% Vitamin B9 <0.1% Vitamin B12 <0.1%

Recovery

88.60-110.11%