

# Analysis of Vitamins

Fast and Efficient with LCTech Products



## We Cannot Do without Vitamins

Vitamins are of basic importance for human health and well-being. They influence the maintenance of many functions in the organism, the synthesis of cells, blood cells, bones and teeth as well as the immune system.

The lack of vitamins can result in serious diseases, thus the detection of vitamins is very important.

Typical samples are food of herbal and animal origin, dietary and vitamin supplements, cosmetics, medicine, but also vitamin-enriched feed.

**LCTech supports your vitamin analysis with high-quality and efficient products.**

## Photochemical Derivatization with UVE, the UV Derivatization Module

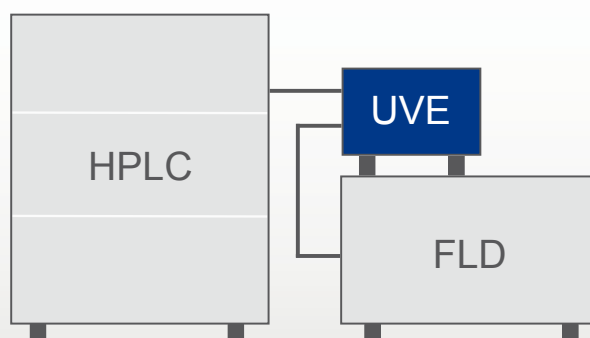
The UVE, a module for photochemical derivatization is suitable for the analysis of **vitamin B3 (Niacin)**.

The method: The sample is extracted and then vitamin B3 is fluorimetrically detected via HPLC and post column derivatization with UV radiation.

Please ask us for the complete application note.

### Advantages at a Glance

- ✓ Can be used together with any HPLC
- ✓ Simply put it between HPLC and detector, switch it on, use it
- ✓ low maintenance, no delicate wearing parts
- ✓ Simple confirmation analysis after switch-off of the reactor
- ✓ Multiple safety features
- ✓ After usage no time-consuming rinsing necessary
- ✓ Low-priced



## Derivatization with Pickering Products

The Pinnacle PCX as professional system for post column derivatization is recommended for the **vitamins B1 (Thiamine), B5 (Pantothenic acid), B6 (Pyridoxine), B7 (Biotin) and C (Dehydroascorbate)**.

An HPLC device and the Pinnacle PCX result in an easy and sensitive method for the quantitative detection of vitamins in diverse samples.



### Advantages at a Glance

- ✓ Significant decrease of the detection limit through derivatization
- ✓ Pulse free base line attributable to injection pump
- ✓ Simple handling: can be supervised by less experienced lab staff
- ✓ Low maintenance, no delicate wearing parts
- ✓ Automated system rinsing
- ✓ Chemically inert
- ✓ Matrix insensitivity

### Ordering Information

P/N	Product
depending on specification	<b>PINNACLE PCX</b> for the analysis of vitamins
10519	<b>UVE,</b> Module for the photochemical derivatization for numerous applications