Analysis of Vitamins D₂ and D₃

Vitamin D is available in 2 distinct forms, D₂ and D₃, and they are found in many foods, including fish, eggs, fortified milk, and cod liver oil. Vitamin D assists in the absorption of calcium and promotes bone mineralization, which may prevent or slow the progression of osteoporosis. It also helps to strengthen the immune system and protect against a number of serious diseases, including high blood pressure and cancer. Structurally similar compounds such as vitamins D₂ and D₃ are difficult to analyze with alkyl group bonded materials. COSMOCORE Cholesterol’s unique cholesterol-based stationary phase offers superior molecular shape selectivity, resulting in better separation for vitamins D₂ and D₃.

Analytical Conditions
- Column size: 2.1 mm I.D. x 100 mm
- Mobile phase: Acetonitrile/0.1% Acetic acid = 95/5
- Flow rate: 0.4 ml/min
- Temperature: 30°C
- Detection: UV265 nm
- Sample:
  1. Vitamin D₂ (0.005 µg)
  2. Vitamin D₃ (0.005 µg)

For research use only, not intended for diagnostic or drug use.

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