

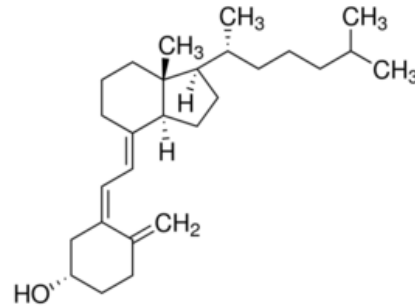
Analytical procedures for Identification, Assay, Degradation products and UoC of cholecalciferol in 10 µg chewable tablets using HPLC.

Release and stability testing.

Cholecalciferol is a form of vitamin D, also called vitamin D3. Vitamin D helps your body absorb calcium. Calcium is one of the main building blocks of bone. A lack of vitamin D can lead to bone diseases such as osteoporosis or rickets. Vitamin D also has a role in your nerve, muscle, and immune systems.

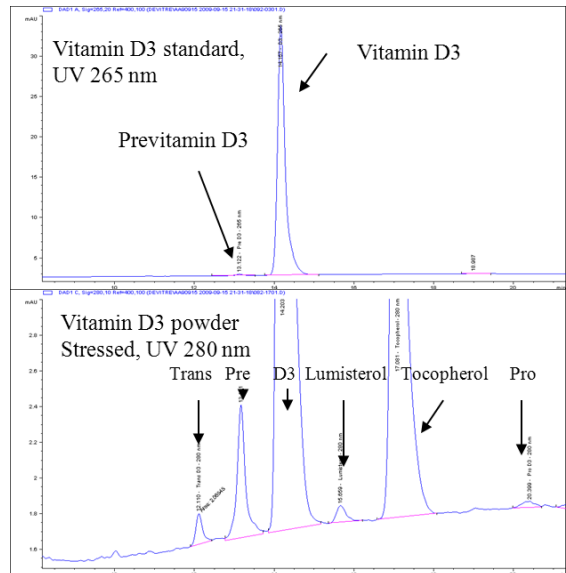
Vitamin D3 is thus commonly consumed by humans to increase vitamin D levels and stringent quality control is applied before release to the market.

Vitas AM-002 is stability indication method that quantifies vitamin D from tablets/powder by HPLC-UV detection.



Cholecalciferol

Chromatogram of vitamin D3 (cholecalciferol) standard (upper) and stressed vitamin D3 powder (lower)



Method details:

- | | |
|-------------------------|-----------------------|
| • Technique: | HPLC-UV |
| • Sample Matrix: | Tablets, powder |
| • Sample amount: | 10 tablets/1 g powder |
| • Range: | 70-130% of label |
| • Detection Limit: | 8 - 26 IU/g |
| • Quantification limit: | 27 - 86 IU/g |
| • Intra-day precision: | 0.21% |
| • Inter-day precision: | 0.76% |
| • Shipping temp: | Room temperature |

Vitas is a Norwegian GMP certified chemical analysis contract lab, with 20 years experience in providing a high quality, custom chromatographic analytical service based on cutting-edge knowledge and technology.