

# VITAMIN D BY MASS SPEC

## WHAT YOU NEED TO KNOW

### 1) What makes Eurofins' Supplement Testing Vitamin D analysis different from standard testing methods?

Our method uses highly selective Liquid Chromatography–Tandem Mass Spectrometry (LCMS/MS), which is the gold standard for accurate Vitamin D measurement in complex or low concentration samples. This method allows us to quantify Total Vitamin D3/D2, including both Vitamin D and previtamin D, which is recognized to have the same biological activity. This ensures a more complete and biologically relevant measurement compared to less specific techniques.

### 2) How does Eurofins ensure accuracy and reliability in Vitamin D results?

Our method incorporates several layers of accuracy control, including:

- Internal standards that compensate for matrix variability, analyte loss, and extraction efficiency.
- Overnight saponification, which fully liberates Vitamin D and simplifies the sample matrix for improved extraction.
- Refined automation to increase throughput and reduce human error. With over 10 years of Vitamin D sample analysis, our approach is proven, precise, and exceptionally robust.

### 3) What sample types can Eurofins test for Vitamin D?

We have extensive experience testing a wide variety of matrices, including:

- Infant formula
- Dietary supplements (capsules, tablets, soft gels, gummies, and chews)
- Premixes
- Foods and Beverages
- Agricultural products

Our experience across diverse sample types has enabled us to validate performance and consistency through many complex matrices.

### 4) How does Eurofins handle large volumes or urgent testing needs?

Eurofins maintains a high capacity workflow supported by:

- Multiple Mass Spectrometers to support heavy demand
- Dedicated teams to set up samples which ensure proper preparation and homogeneity
- Streamlined preparation and extraction processes
- Multi-shift analysis and data review coverage which allows us to efficiently manage backlog, minimize delays, and meet tight turnaround deadlines.

### 5) What ensures that Eurofins can meet my project timelines?

A large, experienced team is fully dedicated to ensuring test deadlines are met. With multishift coverage, automated systems, and proven sample handling workflows, we keep projects moving without compromising quality. From sample preparation to data review our process and method is designed to support reliable turnaround and consistent delivery, even under high-volume conditions.

**Discover why leading brands trust Eurofins—reach out today to discuss how we can support your Vitamin D testing!**

