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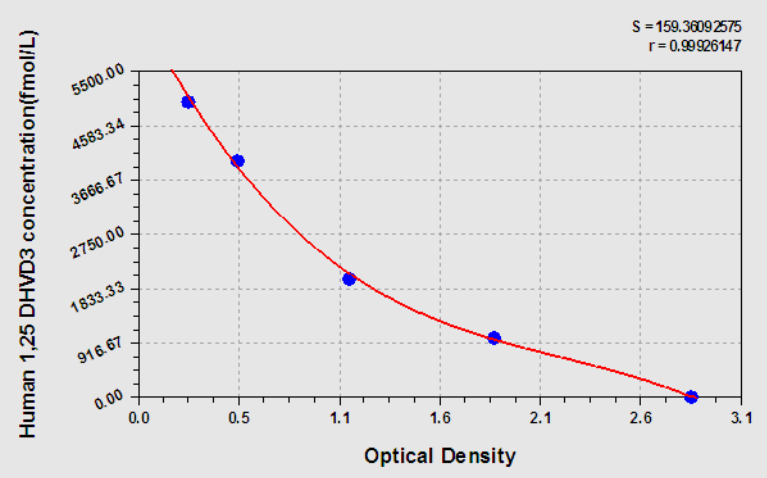
## PRECISION

**Intra-assay Precision (Precision within an assay): CV%<10%**
Three samples of known concentration were tested twenty times on one plate to assess.
**Inter-assay Precision (Precision between assays): CV%<15%**
Three samples of known concentration were tested in twenty assays to assess.

| | Intra-Assay Precision | | | Inter-Assay Precision | | |
|---|---|---|---|---|---|---|
| Sample | 1 | 2 | 3 | 1 | 2 | 3 |
| n | 20 | 20 | 20 | 20 | 20 | 20 |
| Mean(fmol/L) | 2083.45 | 1912.23 | 2050.12 | 1976.69 | 2026.05 | 1993.71 |
| SD | 0.052 | 0.061 | 0.067 | 0.073 | 0.080 | 0.076 |
| CV(%) | 4.697 | 5.169 | 5.947 | 6.287 | 7.019 | 6.594 |

## TYPICAL DATA

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.




| fmol/L | OD1 | OD2 | Average |
|---|---|---|---|
| 5000 | 0.268 | 0.288 | 0.278 |
| 4000 | 0.529 | 0.533 | 0.531 |
| 2000 | 1.116 | 1.100 | 1.108 |
| 1000 | 1.881 | 1.831 | 1.856 |
| 0 | 2.793 | 2.941 | 2.867 |

## LOD

250 fmol/L

## LINEARITY

To assess the linearity of the assay, samples were spiked with high concentrations of Human1,25-dihydroxyvitamin D3 (1,25 DVD/DHVD3)in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

| | Sample | Plant Tissue (n=4) |
|---|---|---|
| 1:10 | Average % | 96 |
| | Range % | 93-100 |
| 1:20 | Average % | 85 |
| | Range % | 80-90 |
| 1:40 | Average % | 90 |
| | Range % | 84-95 |
| 1:80 | Average % | 98 |
| | Range % | 95-105 |