



### PRECISION

**Intra-assay Precision (Precision within an assay): CV%<10%**

Three samples of known concentration were tested twenty times on one plate to assess.

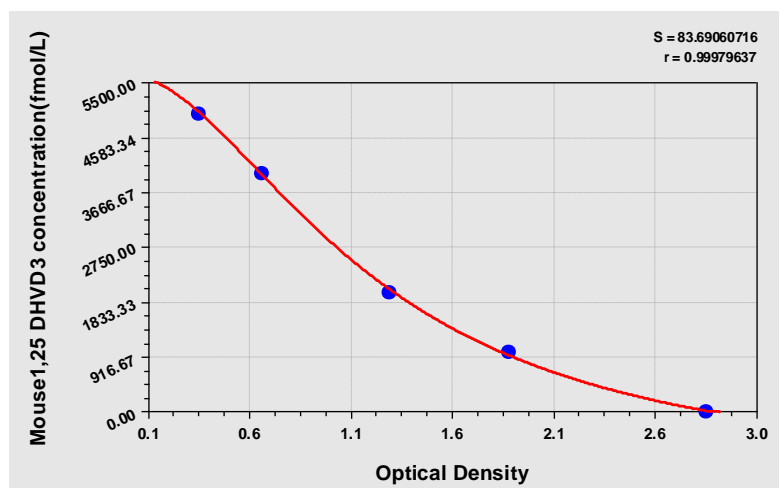
**Inter-assay Precision (Precision between assays): CV%<15%**

Three samples of known concentration were tested in twenty assays to assess.

| Sample       | Intra-Assay Precision |         |         | Inter-Assay Precision |         |         |
|--------------|-----------------------|---------|---------|-----------------------|---------|---------|
|              | 1                     | 2       | 3       | 1                     | 2       | 3       |
| n            | 20                    | 20      | 20      | 20                    | 20      | 20      |
| Mean(fmol/L) | 1996.76               | 2052.86 | 2097.57 | 2033.22               | 1934.69 | 2016.14 |
| SD           | 0.073                 | 0.076   | 0.055   | 0.076                 | 0.081   | 0.085   |
| CV(%)        | 5.647                 | 6.018   | 4.397   | 5.974                 | 6.197   | 6.669   |

### 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   | 0.333 | 0.359 | 0.346   |
| 4000   | 0.654 | 0.642 | 0.648   |
| 2000   | 1.296 | 1.236 | 1.266   |
| 1000   | 1.831 | 1.859 | 1.845   |
| 0      | 2.943 | 2.653 | 2.798   |

### LOD

250 fmol/L

### LINEARITY

To assess the linearity of the assay, samples were spiked with high concentrations of Mouse1,25-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 %          |
|        | Range %            |
| 1:20   | Average %          |
|        | Range %            |
| 1:40   | Average %          |
|        | Range %            |
| 1:80   | Average %          |
|        | Range %            |