

AAA18280

**PRECISION**

**Intra-assay Precision (Precision within an assay): CV%<8%**

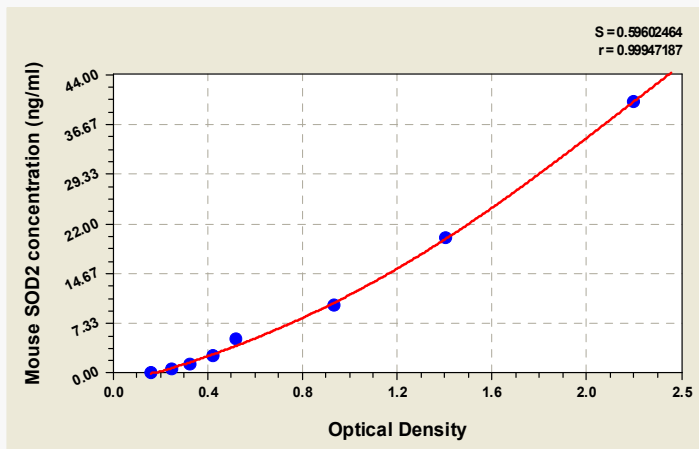
Three samples of known concentration were tested twenty times on one plate to assess.

**Inter-assay Precision (Precision between assays): CV%<10%**

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

**TYPICAL DATA**

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



| ng/ml | OD1   | OD2   | Average | Corrected |
|-------|-------|-------|---------|-----------|
| 40    | 2.292 | 2.202 | 2.247   | 2.064     |
| 20    | 1.415 | 1.476 | 1.446   | 1.263     |
| 10    | 0.956 | 0.978 | 0.967   | 0.784     |
| 5     | 0.548 | 0.539 | 0.544   | 0.361     |
| 2.5   | 0.448 | 0.441 | 0.445   | 0.262     |
| 1.25  | 0.342 | 0.357 | 0.350   | 0.167     |
| 0.625 | 0.275 | 0.266 | 0.271   | 0.088     |
| 0     | 0.182 | 0.184 | 0.183   |           |

**LOD**

0.156 ng/ml.

# for research use only

## **LINEARITY**

To assess the linearity of the assay, samples were spiked with high concentrations of mouse SOD2 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

|     | Sample    | Serum(n=4) |
|-----|-----------|------------|
| 1:1 | Average % | 95         |
|     | Range %   | 86-98      |
| 1:2 | Average % | 100        |
|     | Range %   | 97-104     |
| 1:4 | Average % | 89         |
|     | Range %   | 85-93      |
| 1:8 | Average % | 95         |
|     | Range %   | 91-100     |

## **RECOVERY**

The recovery of mouse SOD2 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

| Sample Type       | Average % Recovery | Range  |
|-------------------|--------------------|--------|
| Serum (n=5)       | 91                 | 85-95  |
| EDTA plasma (n=4) | 101                | 90-105 |