



# Guinea pig thyroxine (T4) ELISA kit

|                              |                                                                                                                                                                                                                                                                                                                                                                                                           |            |  |   |        |            |     |           |    |  |         |        |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|---|--------|------------|-----|-----------|----|--|---------|--------|
| Product Code                 | CSB-EQ027512GU                                                                                                                                                                                                                                                                                                                                                                                            |            |  |   |        |            |     |           |    |  |         |        |
| Abbreviation                 | T4                                                                                                                                                                                                                                                                                                                                                                                                        |            |  |   |        |            |     |           |    |  |         |        |
| Protein Biological Process 1 | Thyroid function                                                                                                                                                                                                                                                                                                                                                                                          |            |  |   |        |            |     |           |    |  |         |        |
| Product Type                 | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                 |            |  |   |        |            |     |           |    |  |         |        |
| Immunogen Species            | Guinea Sus scrofa (Pig)                                                                                                                                                                                                                                                                                                                                                                                   |            |  |   |        |            |     |           |    |  |         |        |
| Sample Types                 | serum, plasma                                                                                                                                                                                                                                                                                                                                                                                             |            |  |   |        |            |     |           |    |  |         |        |
| Detection Range              | 20 ng/mL-320 ng/mL                                                                                                                                                                                                                                                                                                                                                                                        |            |  |   |        |            |     |           |    |  |         |        |
| Sensitivity                  | 20 ng/mL                                                                                                                                                                                                                                                                                                                                                                                                  |            |  |   |        |            |     |           |    |  |         |        |
| Assay Time                   | 1-5h                                                                                                                                                                                                                                                                                                                                                                                                      |            |  |   |        |            |     |           |    |  |         |        |
| Sample Volume                | 50-100ul                                                                                                                                                                                                                                                                                                                                                                                                  |            |  |   |        |            |     |           |    |  |         |        |
| Detection Wavelength         | 450 nm                                                                                                                                                                                                                                                                                                                                                                                                    |            |  |   |        |            |     |           |    |  |         |        |
| Lead Time                    | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.                                                                                                                                                                                                                                                                                                  |            |  |   |        |            |     |           |    |  |         |        |
| Research Area                | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                       |            |  |   |        |            |     |           |    |  |         |        |
| Tag Info                     | quantitative                                                                                                                                                                                                                                                                                                                                                                                              |            |  |   |        |            |     |           |    |  |         |        |
| Protein Description          | Competitive                                                                                                                                                                                                                                                                                                                                                                                               |            |  |   |        |            |     |           |    |  |         |        |
| Description                  | This Guinea pig thyroxine (T4) ELISA Kit was designed for the quantitative measurement of Guinea pig thyroxine (T4) protein in serum, plasma. It is a Competitive ELISA kit, its detection range is 20 ng/mL-320 ng/mL and the sensitivity is 20 ng/mL.                                                                                                                                                   |            |  |   |        |            |     |           |    |  |         |        |
| Product Precision            | <b>Intra-assay Precision (Precision within an assay): CV%&lt;15%</b><br>Three samples of known concentration were tested twenty times on one plate to assess.<br><b>Inter-assay Precision (Precision between assays): CV%&lt;15%</b><br>Three samples of known concentration were tested in twenty assays to assess.                                                                                      |            |  |   |        |            |     |           |    |  |         |        |
| Linearity                    | To assess the linearity of the assay, samples were spiked with high concentrations of Guinea pig T4 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay. <table><tr><td>?</td><td>Sample</td><td>Serum(n=4)</td></tr><tr><td>1:1</td><td>Average %</td><td>89</td></tr><tr><td></td><td>Range %</td><td>85-100</td></tr></table> |            |  | ? | Sample | Serum(n=4) | 1:1 | Average % | 89 |  | Range % | 85-100 |
| ?                            | Sample                                                                                                                                                                                                                                                                                                                                                                                                    | Serum(n=4) |  |   |        |            |     |           |    |  |         |        |
| 1:1                          | Average %                                                                                                                                                                                                                                                                                                                                                                                                 | 89         |  |   |        |            |     |           |    |  |         |        |
|                              | Range %                                                                                                                                                                                                                                                                                                                                                                                                   | 85-100     |  |   |        |            |     |           |    |  |         |        |



|     |           |        |
|-----|-----------|--------|
| 1:2 | Average % | 90     |
|     | Range %   | 81-99  |
| 1:4 | Average % | 92     |
|     | Range %   | 85-100 |
| 1:8 | Average % | 90     |
|     | Range %   | 90-100 |

**Recovery**

The recovery of Guinea pig T4 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)       | 92                 | 86-99  |
| EDTA plasma (n=4) | 93                 | 85-100 |