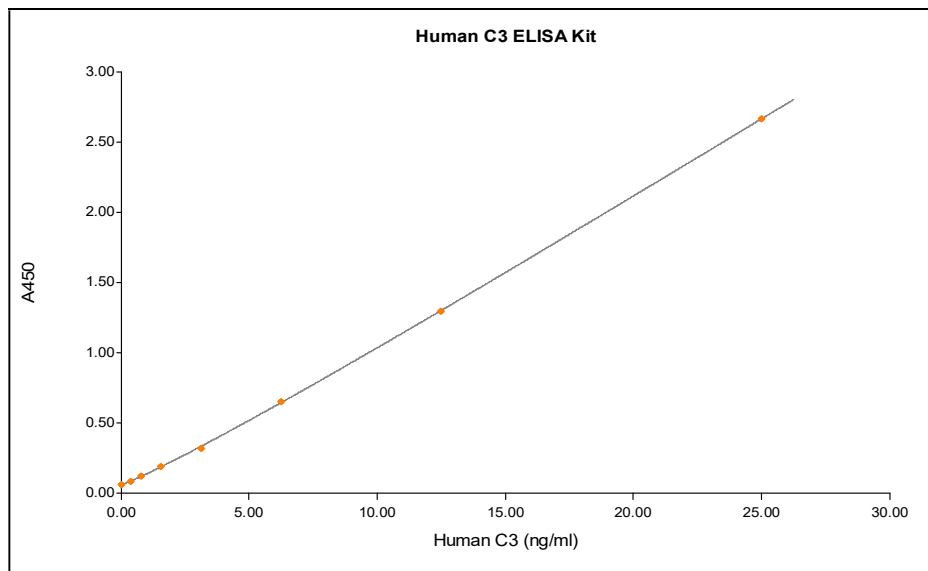


Human Complement C3 ELISA Kit Cat# 6280

The Human C3 ELISA Kit is a highly sensitive sandwich ELISA for the measurement of Human C3 in serum, plasma, culture supernatant, or other appropriately qualified matrices



C3 (ng/ml)	0	0.39	0.78	1.56	3.125	6.25	12.5	25
A ₄₅₀	0.061	0.088	0.128	0.191	0.325	0.658	1.302	2.67

Human C3 ELISA Kit features

- Anti-Human C3 antibody pre-coated, ready-to-use 96-well breakable strip plate, suitable for multiple runs over 6-12 months
- Pre-diluted, ready-to-use Native serum purified Human C3 standard
- **Assay length:** 1 hour & 45 minutes. 3 incubation steps at room temperature
- **Dynamic range:** 0.39-25 ng/ml
- **Sensitivity** ~200 pg/ml
- **Storage:** 2-8°C (whole kit)
- **Shelf life:** 6-12 months

Contains all necessary reagents. For in vitro research use only.

Assay Procedure: Allow all reagents to reach room temperature. Arrange and label required number of strips.

- Step 1.** Pipette 100 ul of appropriately diluted samples and calibrators into wells and incubate for 1 hour at room temperature.
- Step 2.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 3.** Add 100 ul of HRP conjugated detection antibody to each well and incubate for 30 minutes at room temperature
- Step 4.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 5.** Add 100 ul of TMB Substrate solution to all wells, mix gently, and incubate at room temperature for 15 minutes.
- Step 6.** Pipette 100 ul of stop solution into each well and mix gently. Measure at 450 nm w/ 630 nm as a reference filter if available.

Performance Characteristics

Sensitivity: ~200 pg/ml
Average recovery: 100 ±15%
Average linearity: 100 ±15%
Precision: Intra-assay: <10% Inter-assay: <10%

Minimum recommended dilution:

Serum & Plasma: 10-fold

Culture supernatant: 2-fold

Note: Minimum recommended dilution represents the dilution which is needed to eliminate matrix interference effects. All samples must be diluted to at least the minimum recommended ratio. Samples may be further diluted if the sample values fall within the standard curve, if sample volume is to be preserved, or if the sample value is above the highest OD on the standard curve

Normal C3 Serum range: 1.0-3.0 mg/ml

Recommended starting dilution for serum and plasma: 1:200,000

General Information

Complement component 3 or C3 is one of the major proteins of the innate immune system. C3 is required to activate both the classical and alternative complement activation pathways. Deficiencies in C3s lead to susceptibility to bacterial infection. Low C3 levels are also associated with Systemic Lupus Erythematosus (SLE) and kidney diseases such as post-infectious glomerulonephritis, membranoproliferative glomerulonephritis, and stunt nephritis.