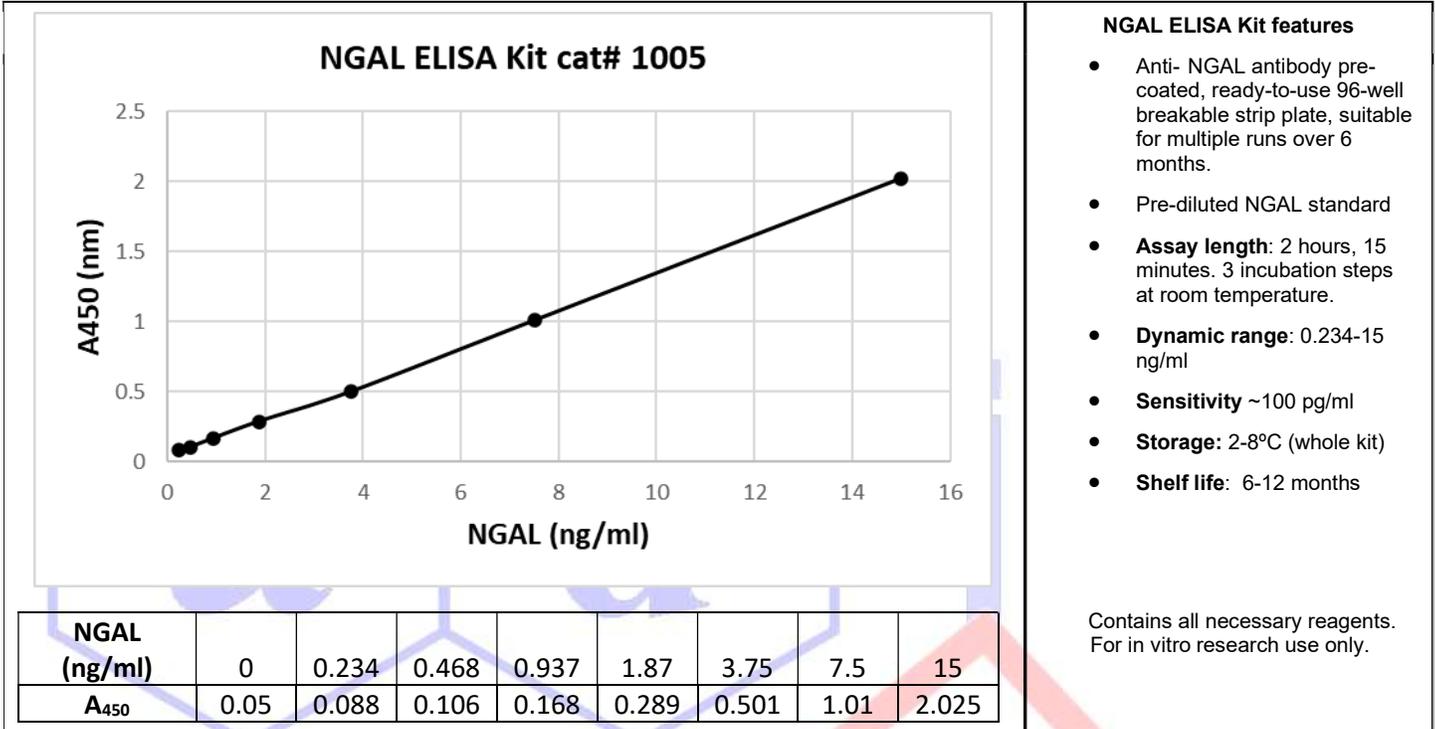


NGAL ELISA Kit Cat# 1005

The NGAL ELISA Kit is a highly sensitive sandwich ELISA for the measurement of NGAL in Serum, Plasma, Saliva, Urine, Cell culture supernatants and other appropriately qualified matrices



NGAL ELISA Kit features

- Anti- NGAL antibody pre-coated, ready-to-use 96-well breakable strip plate, suitable for multiple runs over 6 months.
- Pre-diluted NGAL standard
- **Assay length:** 2 hours, 15 minutes. 3 incubation steps at room temperature.
- **Dynamic range:** 0.234-15 ng/ml
- **Sensitivity** ~100 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 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 1 hour at room temperature
- Step 4** Wash the wells 5X 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: ~100 pg/ml
Precision: Intra-assay: <10% Inter-assay: <10%

Minimum recommended dilution:
 Serum, Plasma, Saliva, & Urine: 10-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

Expected NGAL range:
Serum & Plasma: 20-200 ng/ml
Urine: 1-100 ng/ml
Saliva: 100-1000 ng/ml

General Information

Neutrophil gelatinase-associated lipocalin (NGAL) is a small glycoprotein expressed in the bone marrow, epithelial tissues associated with antimicrobial defense, and in the distal tubules and collecting duct of the kidney. Elevated levels of blood and urine NGAL are associated with acute or chronic renal failure. NGAL is used as a biomarker of kidney injury, and has also been shown to play a role in cancer and cardiovascular events.