



Technical Information

Collagen IV EIA, human urine

Kidney Injury Biomarker

FOR RESEARCH USE ONLY

Not for use in Diagnostic Procedures

Cat. No.: BIO83
 Tests: 96
 Method: **ELISA**
 Range: 0.8 - 50 µg/L
 Sensitivity: 0.8 µg/L
 Incubation time: 25 hours

Sample volume: 50 µL
 Sample type: Urine
 Sample storage:

Collagen IV can precipitate out of urine, resulting in falsely low results. For this reason the use of Collagen IV sample collection tubes which ensure accurate reproducible measurement is recommended. After collection in such tubes, samples can be stored at 2-8 °C for up to one week or at -20 °C for nine months.

Avoid repeated freeze-thawing of samples.

Reference values:

It is recommended that each laboratory establish its own reference range.

| Sample Collection | Age | Collagen IV (µg/g Creatinine) | N |
|---------------------|-------------|-------------------------------|-----|
| Early morning urine | 30-39 years | < 4.0 | 122 |
| | > 40 years | < 4.9 | 64 |
| Spot urine | < 21 years | < 7.3 | 390 |

Species: Human

Cross reaction: Cross reactivity is less than 2% with Collagen II and less than 0.5% with other forms of collagen.

Interference:

No significant interference has been observed in this assay with creatinine, hemolytic or icteric samples.

- Creatinine: Less than 10% interference up to 3 g/L in sample.
- Hemolysis: Less than 10% interference up to 4.8 g/L hemoglobin.
- Icterus: Less than 10% interference up to 0.2 g/L bilirubin.

Intended research use:

- Studies indicate that glomerular basement membrane expansion can occur with kidney damage. Collagen IV, a type of collagen found primarily in the basement membrane, has been found to be increased in association with this expansion. Studies also show that this increase in kidney Collagen IV directly correlates with an increase in urine Collagen IV.
- For research studies related to chronic kidney injury. Assay is complimentary to α -GST & π -GST EIAs, making it well-suited for a biomarker panel researching kidney injury.

For more information please contact:

US/Canada Partner

Diapharma Group, Inc.
 8948 Beckett Road
 West Chester, OH 45069
 Phone +1 800 526 5224
 Fax +1 513 860 9635
 info@diapharma.com
 www.diapharma.com