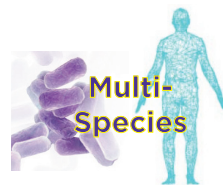


Urea Nitrogen (BUN) Detection Kit

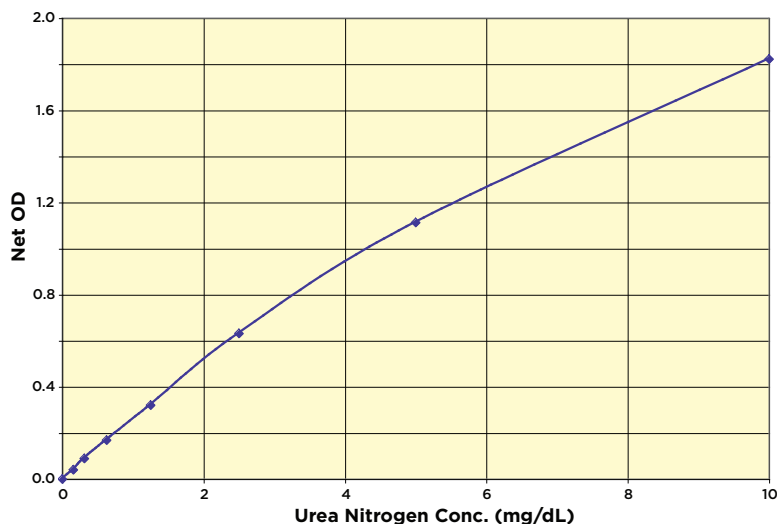
Catalog No. K024-H1

- **VALIDATED** - Measure BUN concentration in serum, plasma, urine & saliva
- **ACCURATE** - Calibrated to US NIST Standard
- **FAST** - Results in 30 minutes
- **ECONOMICAL** - 88 Samples per kit



Urea is a by-product of protein metabolism by the liver, and freely filters through the glomerulus, but is reabsorbed by the renal tubules in a flow-dependent fashion. The higher the flow rate, the greater amount of urea nitrogen is cleared from circulation. As a result, the level of circulating urea nitrogen serves as a primary measure of kidney function.

The DetectX[®] Urea Nitrogen (also called BUN) Detection kit is designed to quantitatively measure urea nitrogen. A urea nitrogen standard calibrated to NIST Standard Reference Material 912a is provided. Samples are mixed with Color Reagents A and B and incubated at room temperature for 30 minutes. The colored product is read at 450 nm.



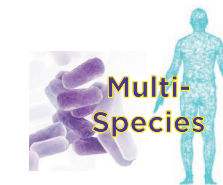
Phone: 734.677.1774
 E Mail: Info@ArborAssays.com
www.ArborAssays.com



Serum Creatinine Detection Kits

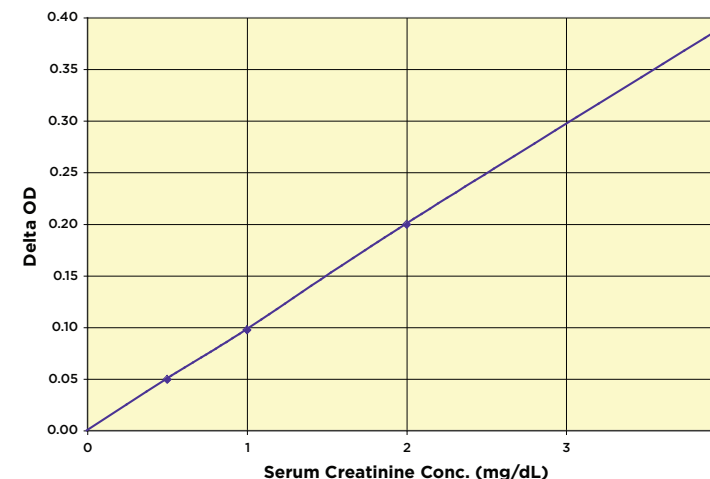
Catalog No. KB02-H1/H2

- **VALIDATED** - Measure Serum Creatinine concentration in most species
- **ACCURATE** - Calibrated to US NIST Standard
- **FAST** - Results in 30 minutes
- **ECONOMICAL** - 91 or 187 Samples per kit (2 plate or 4 plate)



Creatinine is a metabolite of p-creatinine, a molecule used as a store for high-energy phosphate that can be utilized by tissues for the production of ATP. Creatine and p-creatinine are converted non-enzymatically to the metabolite creatinine, which under normal conditions occurs at a rate that is relatively constant. Creatinine is removed from plasma by glomerular filtration into the urine without being reabsorbed by the tubules to any significant extent. Determinations of creatinine and renal clearance of creatinine are of value in the assessment of kidney function.

The DetectX[®] Creatinine Detection kits are designed to quantitatively measure creatinine present in serum samples. A creatinine standard, calibrated to a NIST creatinine standard, is provided. Standards or samples are pipetted into a clear microtiter plate. The color generating reaction is initiated with the DetectX[®] Creatinine Reagent, which is pipetted into each well. The 490 nm optical density is read at 1 and 30 minutes.



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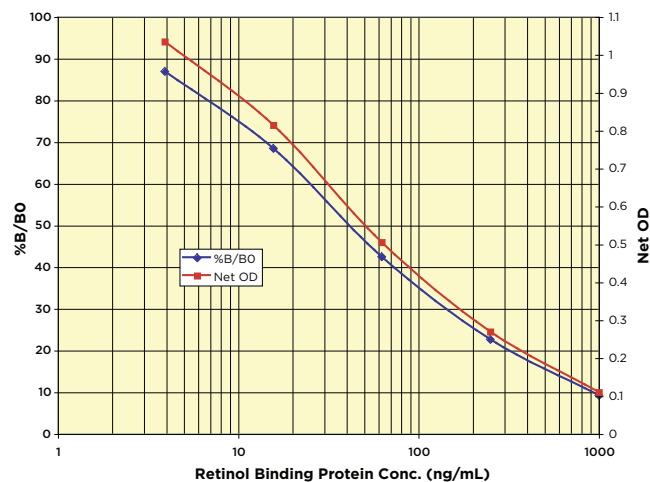
Urinary Retinol Binding Protein EIA Kit

Catalog No. KU04-H1

- **VALIDATED** - Measure Urinary RBP concentration in most species
- **TESTED** - Human, Rat, Dog and Monkey urines
- **FAST** - Results in 90 minutes
- **ECONOMICAL** - 41 Samples in duplicate per kit

Retinol binding protein (RBP) is from a family of structurally related proteins that bind small hydrophobic molecules such as bile pigments, steroids, odorants, etc. RBP is a 21 kDa highly conserved, single-chain glycoprotein that has a hydrophobic pocket which binds retinol (vitamin A). RBP has also been shown to be a useful marker for renal function as it is filtered by the glomeruli and reabsorbed by proximal tubules. This has made uRBP a tool to study renal function in heart or kidney transplant recipients, and type 1 and 2 diabetics.

The DetectX[®] Urinary RBP EIA kit uses a human RBP standard to generate a standard curve. A RBP-peroxidase conjugate is added to the wells, followed by the addition of the RBP antibody. After the primary incubation the plate is washed and substrate is added. The substrate reacts with the bound RBP-peroxidase conjugate. The color reaction is stopped and the intensity read at 450 nm.



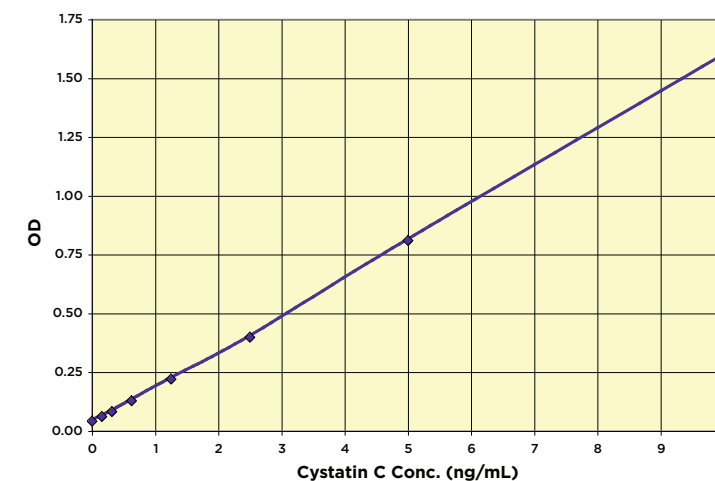
Human Cystatin C EIA Kit

Catalog No. K012-H1

- **VALIDATED** - Measure Cystatin C in Serum, Plasma, Urine and TCM
- **FAST** - Results in 2 hours
- **ECONOMICAL** - 40 samples in duplicate
- **STABLE** - All liquid reagents at 4°C

Cystatin C is a protein in the cystatin superfamily and is produced at a constant rate in all nucleated cells. Cystatin C belongs to the cysteine proteinase inhibitor group and is associated with several pathological conditions, such as renal failure, inflammation, cancer, and other conditions. Cystatin C is removed from blood plasma by glomerular filtration in the kidneys. It is reabsorbed by the proximal tubular cells and degraded. There is a linear relationship between the reciprocal Cystatin C concentration in plasma and the glomerular filtration rate (GFR).

The DetectX[®] Human Cystatin C Immunoassay kit is designed to quantitatively measure Cystatin C. A human standard is provided. Standards or samples are added to a microtiter plate coated with a monoclonal antibody to Cystatin C. After a 60 minute incubation, the plate is washed and HRP-conjugated Cystatin C monoclonal antibody is added. After a 30 minute incubation the plate is washed and substrate is added which reacts with the bound Cystatin C conjugate and then read at 450 nm.



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E Mail: Info@ArborAssays.com

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