

- PGE₂ is produced in a wide variety of tissues and in several pathological conditions, including: inflammation, arthritis, fever, tissue injury, endometriosis and a variety of cancers.
- Other biological actions of PGE₂ include vasodilation modulation of sleep/wake cycles, and facilitation of human immunodeficiency virus replication.
- It elevates cAMP levels, stimulates bone resorption, and has thermoregulatory effects. It has been shown to be a regulator of sodium excretion and renal hemodynamics.

DetectX® PGE₂ ELISA KITS (K051-H1/H5/H1W/H5W)



The PGE2 monoclonal (3H10) developed for use in this kit has some truly amazing properties:

- **Measure** PGE2 between 1,000-2 pg/mL
- **Super Fast Kinetics:** Same Assay Range at 2 or 16hrs
- **Incredible Sensitivity:** Lowest Standard < 2 pg/mL
- **Sample types:** serum, plasma, saliva, urine, tissue culture media
- **Measure up to 39 or 231 in duplicate**
- **Super Low Sample Volume Options**
- **Versatile** - Choice of incubation time, sensitivity, and sample volume
- **Cited** in over 60 publications

RELATED DetectX® KITS

- Cyclic AMP Direct ELISA Kits (K019-H1/H5)
- Cyclic AMP Direct Chemiluminescent ELISA Kits (K019-C1/C5)
- Cyclic GMP Direct ELISA Kits (K065-H1/H5)
- Cyclic GMP Direct Chemiluminescent ELISA Kits (K020-C1/C5)
- Nitric Oxide (NO) Colorimetric Detection Kit (K023-H1)
- Protein Kinase A (PKA) Colorimetric Activity Kit (K027-H1)

Intra Assay Precision

Three human samples were diluted with Assay Buffer and run in replicates of 20 in an assay. The mean and precision of the calculated Prostaglandin E₂ concentrations were:

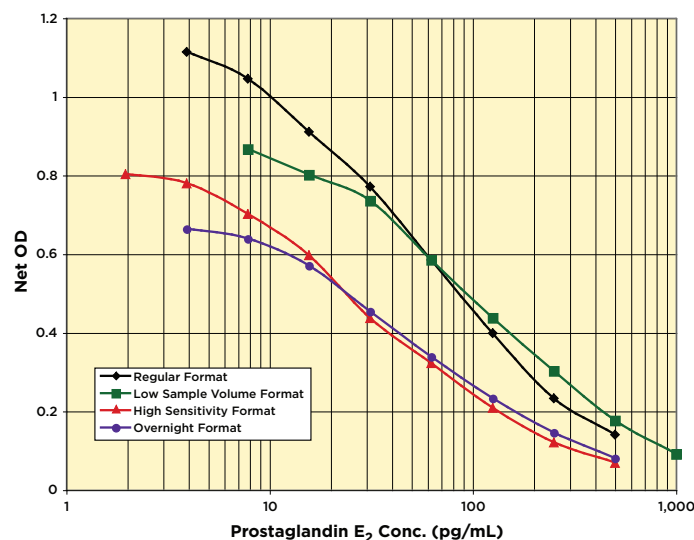
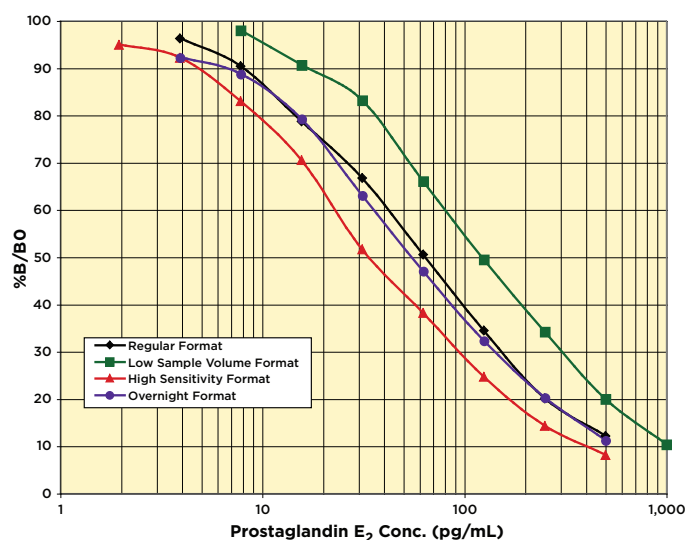
| Sample | Prostaglandin E ₂ Conc. (pg/mL) | %CV |
|--------|--|------|
| 1 | 11.7 | 12.3 |
| 2 | 98.6 | 6.3 |
| 3 | 131.2 | 4.9 |

Inter Assay Precision

Three human samples were diluted with Assay Buffer and run in duplicates in seventeen assays run over multiple days by four operators. The mean and precision of the calculated Prostaglandin E₂ concentrations were:

| Sample | Prostaglandin E ₂ Conc. (pg/mL) | %CV |
|--------|--|-----|
| 1 | 12.3 | 8.8 |
| 2 | 100.5 | 8.1 |
| 3 | 134.7 | 9.8 |

Comparative Typical Data - All Format Options



Overnight Data is from the Regular Format (50uL).

Run your own standard curves for calculation of results. Do not use this data.