

Steroid Hormone Assay Kits

Researchers have trusted Cayman's collection of steroid hormone assays for decades to study effects on metabolism, inflammation, immune function, reproduction, and stress responses.



Why Choose Cayman's Kits?

These kits were developed to give the best sensitivity possible while maintaining a good signal-to-noise ratio. We report sensitivity as the 80% B/B₀ point on the standard curve to ensure reliable, reproducible data.

- High sensitivity & wide dynamic range
- Extensive cross-reactivity tested
- Validated in several biological matrices
- Broad species coverage

Turn to the next page to learn more about why we define assay sensitivity this way and the wide dynamic range of these kits.

Androgens

Item No.	Product Name	Assay Range	Sensitivity (80% B/B ₀)
582701	Testosterone ELISA Kit	3.9-500 pg/ml	6 pg/ml
582751	11-keto Testosterone ELISA Kit	0.78-100 pg/ml	1.3 pg/ml
501740	Testosterone Glucuronide ELISA Kit	4.9-3,000 pg/ml	25 pg/ml

Estrogens

Item No.	Product Name	Assay Range	Sensitivity (80% B/B ₀)
501890	Estradiol ELISA Kit	0.61-10,000 pg/ml	20 pg/ml
582281	Estriol ELISA Kit	0.9-2,000 pg/ml	4 pg/ml (4°C for 18 hrs), 12 pg/ml (RT for 2 hrs)
501290	Estrone-3-Glucuronide ELISA Kit	2.7-6,000 pg/ml	23.2 pg/ml (overnight), 36.1 pg/ml (rapid)
582261	2-Methoxyestradiol ELISA Kit	13.1-8,000 pg/ml	40 pg/ml

Progestogens

Item No.	Product Name	Assay Range	Sensitivity (80% B/B ₀)
501300	Pregnanediol-3-Glucuronide (PDG) ELISA Kit	0.4-50 ng/ml	0.94 ng/ml
582601	Progesterone ELISA Kit	7.8-1,000 pg/ml	10 pg/ml

Glucocorticoids

Item No.	Product Name	Assay Range	Sensitivity (80% B/B ₀)
501320	Corticosterone ELISA Kit	8.2-5,000 pg/ml	30 pg/ml
500360	Cortisol ELISA Kit	6.6-4,000 pg/ml	35 pg/ml
500370	Cortisol Express ELISA Kit	39.1-5,000 pg/ml	110 pg/ml
501420	11-Oxoetiocholanolone ELISA Kit	0.061-1,000 ng/ml	0.2 ng/ml

Mineralocorticoids

Item No.	Product Name	Assay Range	Sensitivity (80% B/B ₀)
501090	Aldosterone ELISA Kit	15.6-2,000 pg/ml	30 pg/ml

Vitamin D

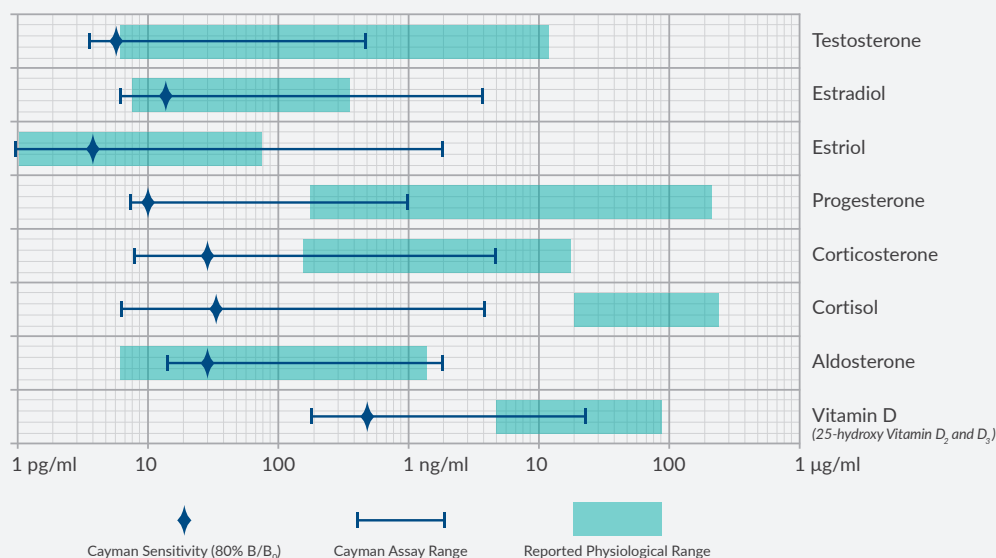
Item No.	Product Name	Assay Range	Sensitivity (80% B/B ₀)
501050	Vitamin D ELISA Kit	0.19-25 ng/ml	0.5 ng/ml

High Sensitivity & Wide Dynamic Range

Other assay manufacturers typically define assay sensitivity as the Lower Limit of Detection (LLOD). However, this point is typically not reliable nor reproducible and may reside at a concentration below the linear range of the assay. Cayman's sensitivity is defined as the 80% B/B₀ point (standard bound/maximum bound) on the standard curve. 80% binding is the minimum level where reliable, reproducible data can be obtained and represents the minimal functional sensitivity outside of the range of statistical bias.

Low concentrations of steroid hormones are often physiologically relevant, and variable concentration ranges of steroid hormones are typically seen across samples depending on the experiment. Cayman's steroid hormone assays report pg/ml or ng/ml levels of sensitivity and support a wide dynamic range to accommodate these factors. In the infographic below, the range of concentrations of physiological steroid hormones in human serum reported by the Mayo Clinic is compared to the assay range and sensitivity of Cayman's steroid hormone assay kits.

Physiological Range of Steroid Hormones in Human Serum



Note that these ranges are offered as a guide only. Each laboratory should establish their own range for their experimental variables.



Find answers to frequently asked questions about Cayman's steroid hormone kits at www.caymanchem.com/steroidfaq

Explore all of our hormone ELISA kits at
www.caymanchem.com