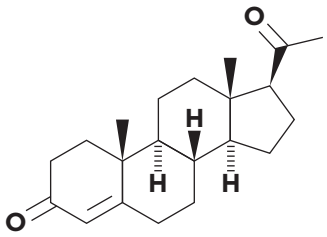
DetectX® Progesterone ELISA Kits

REPRODUCTIVE



- Progesterone is an essential regulator of female reproductive function and plays an important role in the cardiovascular system, bone and central nervous system.
- It plays an important role in brain function as a neurosteroid.
- PRA and PRB, two isoforms of the nuclear progesterone receptor, are expressed in a variety of normal breast tissue and in breast cancer cells.
- Progesterone is also a crucial metabolic intermediate in the production of other endogenous steroids, including sex hormones and corticosteroids.
- Analysis of progesterone and its metabolites is essential to investigate and better understand stress responses and reproductive status of study organisms.

DetectX® PROGESTERONE ELISA KITS (K025-H1/H5/H1W/H5W)

MULTI SPECIES

- **Measure** 11- and 3-hydroxyprogesterones in **2.5 Hours**
- **Sensitivity:** 47.9 pg/mL
- **Sample types:** fecal extracts, urine and tissue culture media
- **Measure** up to **39 or 231** samples in duplicate
- **4°C** stable liquid reagents

DetectX® PROGESTERONE METABOLITES ELISA KITS (K068-H1/H5)

MULTI SPECIES

- **Measure** general progesterone metabolites and generate reproductive profiles
- **Sensitivity:** 51.2 pg/mL
- **Sample types:** fecal extracts and urine
- **Measure** up to **40 or 232** samples in duplicate
- **4°C** stable liquid reagents

RELATED DetectX® KITS

- 17-Hydroxyprogesterone ELISA Kits **(K053-H1/H5)**
- Aldosterone ELISA Kits **(K052-H1/H5/C1/C5)**
- Allopregnanlone ELISA Kits **(K061-H1/H5)**
- Corticosterone ELISA Kits **(K014-H1/H5/H1W/H5WC1/C5)**
- Cortisone ELISA Kits **(K017-H1/H5/C1/C5)**
- Cortisol ELISA Kits **(K003-H1/H5/H1W/H5W)**
- Estrone ELISA Kits **(K031-H1/H5)**
- Estrone-3-Glucuronide (E1G) ELISA Kits **(K036-H1/H5)**
- Estradiol ELISA Kits **(K030-H1/H5)**
- Estradiol Serum ELISA Kits **(KB30-H1/H5)**
- Levonorgestrel (LNG) ELISA Kits **(K058-H1/H5)**
- Oxytocin ELISA Kits **(K048-H1/H5/H1W/H5W)**
- PGFM ELISA Kits **(K022-H1/H5)**
- Prolactin ELISA Kit **(K040-H1)**
- Testosterone ELISA Kits **(K032-H1/H5/H1W/H5W)**

Check our website for MORE related kits!

DetectX® PROGESTERONE ELISA KITS (K025-H1/H5)

The DetectX® Progesterone ELISA Kit, K025-H, is designed to quantitatively measure Progesterone present in non-invasive samples such as extracted dried fecal samples, urine and tissue culture media samples. It detects 3β, 3α and 11α-hydroxyprogesterone with a higher cross reactivity. The cross-reactivity profile of the progesterone mouse monoclonal antibody that goes into the K025-H kit is shown in the table to the right. K025 has been widely used to assess reproduction.

Progesterone	100%
3β-Hydroxyprogesterone	172%
3α-Hydroxyprogesterone	188%
11β-Hydroxyprogesterone	2.7%
11α-Hydroxyprogesterone	147%
5α-Dihydroprogesterone	7.0%
Pregnenolone	5.9%
Corticosterone	<0.1%
Androstenedione	<0.1%

DetectX® PROGESTERONE METABOLITES ELISA KITS (K068-H1/H5)

The DetectX® Progesterone Metabolites ELISA Kit, K068-H, was also developed for use in non-invasive sample types such as extracted fecal samples and urine. The rabbit polyclonal antibody used in this kit cross reacts with metabolites listed on the table. It detects 5α-DHP among others listed. In different animal species, progesterone can be metabolized and excreted as a variety of general progesterone molecules. A few examples would be:

- fecal 5-reduced progesterone (pregnane) metabolites
- pregnanolones
- hydroprogesterones

Measurement of these general progesterone molecules can provide vital data about endangered species to aid reproductive strategies. A group-specific antibody with a high cross-reactivity to most progesterone metabolites would provide strong evidence for an ongoing reproductive cycle.

Progesterone	100%
5α-Dihydroprogesterone	56.70%
5β-Dihydroprogesterone	61.90%
Epiallopregnanolone/ 5α-pregnan-3β-ol-20-one	38.30%
Pregnanolone/5β--pregnan-3α-ol-20-one	41.20%
Allopregnanolone	27.30%
Pregnenolone	17.60%
Epipregnanolone	10.20%
Allopregnandiol	0.29%
11α-Hydroxyprogesterone	4.90%
17-Hydroxyprogesterone	5.70%
20α-Hydroxyprogesterone	0.34%
Testosterone	0.18%
Androstenedione	<0.1%
Corticosterone	<0.1%
17β-Estradiol	<0.1%