

Steroids calibrator set (RUO) – Instructions for use

Product number: 20479

Product description

A set of seven lyophilized calibration standards (seven different concentration levels) for the absolute quantification of 17 specific steroid hormones in a variety of application areas, such as biomarker discovery, disease phenotyping, clinical research, or pharmaceutical R&D. The concentration ranges have been developed around the biological variance in human serum.

Intended use

The calibrator set is intended to be used in a research or clinical laboratory by qualified personnel for the quantitative determination of steroid hormones. The product is used to establish a calibration curve for interpolating steroid concentrations in human serum via liquid chromatography – tandem mass spectrometry (LC-MS/MS) systems. The best performance can be achieved in combination with the biocrates quality control set and internal standards. It is intended for research use only and not for diagnostic applications. Use of this product outside its intended use is the sole responsibility of the user.

Reconstitution

- Add 10 mL of water to the Calibration Matrix (brown bottle).
- Vortex for 30 sec.
- Add 1200 µL of the reconstituted Calibration Matrix to each calibrator vial.
- Vortex for 10 sec.
- Shake for 15 min at 1200 rpm.
- Vortex several times. The calibrators are now ready to use.

Storage and stability

- 3 months after shipping date when stored at -20 °C
- 12 months after shipping date when stored at -80 °C
- 1 week after reconstitution when stored at +4-8 °C

Concentrations [ng/mL]

LOT 1052849391

	Substance	Cal 1	Cal 2	Cal 3	Cal 4	Cal 5	Cal 6	Cal 7
1	Aldosterone	0.05	0.1	0.2	0.4	1.5	3.0	5.0
2	Androstenedione	0.032	0.064	0.128	0.64	2.4	4.8	8.0
3	Androsterone	0.06	0.12	0.24	0.48	1.8	3.6	6.0
4	Corticosterone	0.03	0.12	0.6	2.4	9.0	18	30
5	Cortisol	1.0	4.0	20	80	300	600	1000
6	Cortisone	0.1	0.4	2.0	8.0	30	60	100
7	11-Deoxycorticosterone	0.03	0.12	0.6	1.2	4.5	9.0	15
8	11-Deoxycortisol	0.01	0.04	0.2	0.8	3.0	6.0	10
9	DHEA	0.12	0.24	0.48	2.4	9.0	18	30
10	DHEAS	32	64	128	640	2400	4800	8000
11	Dihydrotestosterone (DHT)	0.012	0.024	0.048	0.24	0.9	1.8	3.0
12	β -Estradiol (E2)	0.02	0.08	0.4	1.6	6.0	12	20
13	Estrone (E1)	0.03	0.12	0.6	1.2	4.5	9.0	15
14	Etiocholanolone	0.06	0.12	0.24	0.48	1.8	3.6	6.0
15	17 α -Hydroxyprogesterone	0.05	0.2	1.0	4.0	15	30	50
16	Progesterone	0.06	0.12	0.24	1.2	4.5	9.0	15
17	Testosterone	0.01	0.04	0.2	0.8	3.0	6.0	10