Steroids quality control set (RUO) – Instructions for use

Product number: 20486

Product description

A set of three lyophilized serum-based quality controls (three different concentration levels) for evaluating the analytical performance and defining acceptance criteria for analytical assays in a variety of application areas, such as biomarker discovery, disease phenotyping, clinical research, or pharmaceutical R&D. Each quality control level contains 17 spiked steroid hormones in defined concentrations.

Intended use

The quality control 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 define acceptance criteria for the quantitative analysis of human serum samples via liquid chromatography – tandem mass spectrometry (LC-MS/MS) systems. The best performance can be achieved in combination with the biocrates calibrator set and internals 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 600 µL of water to each QC vial.
- Shake for 15 min at 1200 rpm.
- Vortex several times. The QCs 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 month after reconstitution when stored at -20 °C

Concentrations [ng/mL]

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	Substance	QC 1	QC 2	QC 3
1	Aldosterone	0.15	3.75	37.5
2	Androstenedione	0.1	1.5	15
3	Androsterone	0.1	0.5	5.0
4	Corticosterone	0.15	3.75	37.5
5	Cortisol	0.1	1.0	10
6	Cortisone	0.05	0.5	5.0
7	11-Deoxycorticosterone	0.05	0.25	2.5
8	11-Deoxycortisol	0.05	0.5	5.0
9	DHEA	0.05	0.25	2.5
10	DHEAS	0.05	0.25	2.5
11	Dihydrotestosterone (DHT)	0.025	0.25	2.5
12	ß-Estradiol (E2)	0.05	0.5	5.0
13	Estrone (E1)	0.025	0.25	2.5
14	Etiocholanolone	0.1	2.5	25
15	17α-Hydroxyprogesterone	0.05	1.0	10
16	Progesterone	0.05	0.5	5.0
17	Testosterone	0.05	0.25	2.5