

Steroids internal standards (RUO) – Instructions for use

Product number: 20493

Product description

A vial of lyophilized internal standards containing 15 deuterium-labelled steroid hormones for analytical normalization and quantification. It can be used in combination with the biocrates calibrator set. The internal standards contain optimized concentrations for human serum and can be used in a variety of application areas, such as biomarker discovery, disease phenotyping, clinical research, or pharmaceutical R&D.

Intended use

The internal standards are intended to be used in a research or clinical laboratory by qualified personnel for the qualitative or quantitative determination of steroid hormones. The product is used for analytical normalization of results obtained via liquid chromatography – tandem mass spectrometry (LC-MS/MS) systems. The best performance can be achieved in combination with the biocrates calibrator set and quality control set. 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 1200 µL of methanol to the ISTD vial.
- Shake for 15 min at 1200 rpm.
- Vortex several times. The ISTD is 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

Warnings and precautions

	Very toxic to aquatic life with long lasting effects. Avoid release to the environment. 2.1 % of the mixture consists of component(s) of unknown toxicity. Contains 2.1 % of components with unknown hazards to the aquatic environment.
---	--

Amounts and concentrations

LOT 1041126219

	Substance	Amount [ng]	Concentration [ng/mL]
1	d7-Aldosterone	480	400
2	d3-Androstenedione	36	30
3	d4-Androsterone	120	100
4	d8-Corticosterone	120	100
5	d4-Cortisol	1200	1000
6	d7-Cortisone	60	50
7	d8-11-Deoxycorticosterone	30	25
8	d5-11-Deoxycortisol	48	40
9	d6-DHEAS	48000	40000
10	d3-Dihydrotestosterone (d3-DHT)	144	120
11	d3-Estradiol (d3-E2)	30	25
12	d4-Estrone (d4-E1)	42	35
13	d8-17 α -Hydroxyprogesterone	30	25
14	d9-Progesterone	36	30
15	d5-Testosterone	60	50