

AbsoluteIDQ[®] Steroid Internal Standards

for LC-MS/MS calibrators of steroid hormones, dried

Order no. 9120052120493

Intended use

Steroid Internal Standards is a mixture of 14 isotope labeled steroid hormones designed to use for external calibration of LC-MS/MS based steroid hormone quantifying assays. They are optimized for solid phase extraction (SPE) based sample preparation in combination with the use of the AbsoluteIDQ[®] Stero17 Kit.

For research purposes only.

Reconstitution

Reconstitute the dried content of the vial with 1200 µL methanol, close the vial and vortex for 20 seconds.

Storage and Stability

When stored below -18 °C the unopened standards are stable for at least 3 months. Stored below -70 °C the unopened standards are stable until the expiry date given in the top table on the next page. The reconstituted internal standards can be stored up to one month at -18 °C.

Notes

The concentrations of the internal standards were optimized to provide valid results for human serum samples. It is recommended to use 10 µL of the internal standard solution in combination with 500 µL serum sample volume.

Steroid Internal Standards are produced under strict quality control procedures. Due to possible weighing errors originating from the delivered small amounts (often less than 2 mg per delivery from original manufacturers) of individual isotope labeled standards the concentration values given in the table on the next page can be afflicted with an inaccuracy of ± 30 %.

Pack Size

Internal Standards 1 x 1200 µL

Precautions

Handle the resuspended standards with caution due to the high methanol content.

Potential “external” sources for false-positive signals in steroid hormone quantifying assays might come from pregnant women (progesterone) or persons who are undergoing hormone therapy. These persons should be excluded from working with AbsoluteIDQ[®] Steroid Internal Standards, since transmission of interfering contaminants through saliva and hand sweat can take place.

Concentrations

Absolute **IDQ**[®] Steroid Internal Standards

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

Technique of Analysis

Absolute **IDQ**[®] Stero17 Kit (LC-MS/MS)



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