

Absolute/IDQ[®] Steroid Calibrators

7-level LC-MS/MS calibrators for steroid hormones, lyophilized

Order no. 9120052120479

Intended use

Steroid calibrators are designed for calibration of your LC-MS/MS based analytical system. The calibrators are optimized for the Absolute/IDQ[®] Stero17 Kit. Therefore, it is recommended to use the calibrators in combination with solid phase extraction (SPE) sample preparation and with a sample volume of 500 µL. The calibrators are intended for a seven point calibration. After reconstitution, the calibrators have to be prepared like samples during the analyses.

For research purposes only.

Reconstitution

To prepare calibrators take the brown calibrator matrix flask out of the vial box. Dissolve the dried content of the flask with 10 mL purified water (Milli-Q), close the flask and shake vigorously. Take the 7 calibrator vials with blue caps out from the vial box and add 1200 µL of calibrator matrix to each vial. Close the calibrator vials again. Dissolve the vial content by vigorous shaking or vortexing.

Storage and Stability

When stored below -18 °C the unopened calibrators are stable for at least 3 months. Stored below -70 °C unopened calibrators are stable until the expiry date given in the top table on the next page. The reconstituted calibrators can be stored up to one week if protected from light and tightly capped at 4 °C for all steroid hormones except cortisone and DHEA. If cortisone and DHEA are of interest, the reconstituted calibrators have to be used immediately after reconstitution.

Notes

The analyses of the calibrators are performed using the same test procedure as the serum samples. The concentration range is optimized covering endogenous levels of steroid hormones in healthy female serum samples. Calibrators are produced under strict quality control procedures during manufacturing.

Pack Size

Calibrator matrix	1 x 10 mL
Steroid calibrator 1-7	1 x 7 x 1200 µL

Precautions

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

Concentrations

Absolute**IDQ**[®] Steroid Calibrators

	Steroid Hormone	Value [ng/mL]						
		Kal 1	Kal 2	Kal 3	Kal 4	Kal 5	Kal 6	Kal 7
1	Aldosterone	0.05	0.1	0.2	0.4	1.5	3	5
2	Androstenedione	0.032	0.064	0.13	0.64	2.4	4.8	8
3	Androsterone	0.06	0.12	0.24	0.48	1.8	3.6	6
4	Corticosterone	0.03	0.12	0.6	2.4	9	18	30
5	Cortisol	1	4	20	80	300	600	1000
6	Cortisone	0.1	0.4	2	8	30	60	100
7	11-Deoxycorticosterone	0.03	0.12	0.6	1.2	4.5	9	15
8	11-Deoxycortisol	0.01	0.04	0.2	0.8	3	6	10
9	DHEA	0.12	0.24	0.48	2.4	9	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
12	Estradiol-17-beta (E2)	0.02	0.08	0.4	1.6	6	12	20
13	Estrone (E1)	0.03	0.12	0.6	1.2	4.5	9	15
14	Etiocholanolone	0.06	0.12	0.24	0.48	1.8	3.6	6
15	17 α -Hydroxyprogesterone	0.05	0.2	1	4	15	30	50
16	Progesterone	0.06	0.12	0.24	1.2	4.5	9	15
17	Testosterone	0.01	0.04	0.2	0.8	3	6	10

Technique of Analysis

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

Proficiency Test Approval

Absolute**IDQ**[®] Steroid Calibrators are quarterly tested for aldosterone, cortisol, estradiol-17-beta, progesterone, testosterone, DHEAS, 17 α -hydroxyprogesterone by proficiency tests (RfB, Referenzinstitut für Bioanalytik, DGKL, Germany, <http://www.dgkl-rfb.de/>).



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