

AbsoluteIDQ[®] Quality Controls

3-level serum quality controls for steroid hormones, lyophilized

Order no. 9120052120486

Intended use

Steroid serum quality controls are designed for quality assurance purposes and are based on pooled human serum. The quality controls are optimized for solid phase extraction (SPE) based sample preparation in combination with the use of the AbsoluteIDQ[®] Stero17 Kit. After reconstitution, the quality controls have to be prepared like samples during the analyses.

For research purposes only.

Reconstitution

To prepare the quality controls add 600 µL purified water (Milli-Q) to each vial, close it again and shake or vortex vigorously.

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 quality controls have to be used immediately after reconstitution.

Notes

The analyses of the serum quality controls are performed using the same test procedure as the serum samples. The concentration range of the analytes was optimized for the human serum matrix. Quality Controls are produced under strict quality control procedures during manufacturing.

Pack Size

Steroid quality controls 1-3 1 x 3 x 600 µL

Precautions

The pooled human serum used for manufacturing the Quality Controls was tested and found as negative for the following infectious markers in accordance with FDA regulations for HIV 1/2- and HCV-antibodies, hepatitis B-surface antigen, HIV-1 RNA, HCV RNA, and serologic tests for syphilis (STS). However, the Quality Controls have to be handled as potentially infectious and treated with adequate care.

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 AbsoluteIDQ[®] Quality Controls, since transmission of interfering contaminants through saliva and hand sweat can take place.

Concentrations
Absolute**IDQ**[®] Quality Controls

	Steroid Hormone	QC1		QC2		QC3	
		ng/mL	from - to	ng/mL	from - to	ng/mL	from - to
1	Aldosterone	0.162	(0.089 - 0.236)	0.426	(0.298 - 0.553)	3.12	(2.18 - 4.05)
2	Androstenedione	0.674	(0.371 - 0.98)	1.09	(0.761 - 1.41)	5.49	(3.85 - 7.14)
3	Androsterone	0.250	(0.137 - 0.362)	0.495	(0.346 - 0.643)	3.23	(2.26 - 4.19)
4	Corticosterone	1.50	(0.83 - 2.18)	3.98	(2.79 - 5.18)	20.5	(14.3 - 26.6)
5	Cortisol	77.7	(42.7 - 113)	164	(115 - 214)	774	(542 - 1007)
6	Cortisone	17.8	(9.80 - 25.8)	21.1	(14.7 - 27.4)	92.8	(65.0 - 120.7)
7	11-Deoxycorticosterone	0.274	(0.151 - 0.397)	1.33	(0.93 - 1.73)	10.3	(7.22 - 13.4)
8	11-Deoxycortisol	0.185	(0.102 - 0.268)	0.811	(0.567 - 1.05)	6.53	(4.57 - 8.49)
9	DHEA	2.33	(1.28 - 3.38)	3.57	(2.50 - 4.64)	29.2	(20.4 - 37.9)
10	DHEAS	2118	(1165 - 3072)	2304	(1613 - 2995)	7730	(5411 - 10049)
11	Estradiol (E2)	0.264	(0.145 - 0.382)	1.59	(1.11 - 2.07)	13.0	(9.07 - 16.8)
12	Estrone (E1)	0.222	(0.122 - 0.322)	1.04	(0.731 - 1.36)	8.89	(6.22 - 11.55)
13	Etiocholanolone	0.227	(0.125 - 0.330)	0.596	(0.417 - 0.77)	4.74	(3.32 - 6.16)
14	17 α -Hydroxyprogesterone	1.13	(0.622 - 1.64)	4.91	(3.44 - 6.38)	35.1	(24.5 - 45.6)
15	Progesterone	1.95	(1.07 - 2.83)	4.24	(2.97 - 5.51)	11.7	(8.17 - 15.2)
16	Testosterone	0.391	(0.215 - 0.566)	0.954	(0.668 - 1.24)	7.30	(5.11 - 9.49)

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

Proficiency Test Approval

Absolute**IDQ**[®] Steroid Calibrators which are used to determine the target values of the Absolute**IDQ**[®] Quality Controls 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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