

# Quality Control Certificate



## Steroid Panel Tec-Trace

<b>REF</b> 30220283	<b>LOT</b> MSTC114	<b>2027-05-31</b> YYYY-MM-DD
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**Final Release Results in ng/mL:**

	CONTROL L			
	Concentration	Acceptable range		
	found ng/mL	lower limit ng/mL	target value ng/mL	upper limit ng/mL
11-Deoxycorticosterone	0.192	0.129	0.185	0.240
11-Deoxycortisol	0.466	0.289	0.444	0.600
21-Deoxycortisol	0.410	0.301	0.430	0.558
Androstenedione	0.446	0.328	0.469	0.610
Cortisol	8.63	5.91	8.45	10.98
Cortisone	2.60	1.61	2.30	2.99
Progesterone	0.442	0.315	0.450	0.585
Testosterone	0.266	0.185	0.265	0.344
17α-Hydroxyprogesterone	0.398	0.307	0.438	0.570
Dihydrotestosterone	0.305	0.212	0.303	0.394
Corticosterone	1.38	0.93	1.33	1.73
Dexamethasone	2.34	1.67	2.39	3.10
Dehydroepiandrosterone	3.17	2.23	3.43	4.62
Dehydroepiandrosterone-3-sulfate	222	146	224	302
Aldosterone	0.370	0.247	0.353	0.459
17β-Estradiol	0.143	0.102	0.146	0.190
Estrone	0.0471	0.0326	0.0466	0.0606
17α-Hydroxypregnenolone	1.33	0.98	1.40	1.82

	CONTROL H			
	Concentration	Acceptable range		
	found ng/mL	lower limit ng/mL	target value ng/mL	upper limit ng/mL
	3.64	2.49	3.56	4.63
	9.42	5.87	9.03	12.19
	9.99	6.94	9.92	12.89
	9.15	5.98	8.55	11.11
	184	125	179	233
	46.2	31.2	44.5	57.9
	9.24	6.17	8.81	11.46
	7.29	4.92	7.03	9.14
	10.69	7.10	10.14	13.19
	1.332	0.914	1.306	1.698
	27.9	18.8	26.9	35.0
	39.3	30.0	42.8	55.7
	34.0	21.8	33.5	45.2
	4119	2799	4307	5814
	3.34	2.28	3.25	4.23
	2.72	1.88	2.69	3.49
	0.881	0.622	0.888	1.154
	27.4	19.7	28.2	36.6

**Composition:**

REF		LOT	
30199458	LYO CAL ZERO	K322	2027-05
30191864	LYO CAL A-F	K323	2027-05
30191866	LYO CONTROL L	K324	2027-05
30191867	LYO COTROL H	K325	2027-05
30191868	INT STD	K335	2027-05

Valid edition of the instructions for use: Version 2024-10

**This product has been tested successfully by the Quality Control Department and was released for sale according to the existing specifications.**

Verified by: Dr. Spangenberg

Accepted

Validation date: 2025-10-15

This document has been produced electronically and is valid without a signature.



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## Steroid Panel Tec-Trace

<b>REF</b> 30220283	<b>LOT</b> MSTC114	<b>2027-05-31</b> YYYY-MM-DD
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### Final Release Results in nmol/L:

	CONTROL L			
	Concentration found nmol/L	Acceptable range		
		lower limit nmol/L	target value nmol/L	upper limit nmol/L
11-Deoxycorticosterone	0.581	0.392	0.560	0.728
11-Deoxycortisol	1.346	0.835	1.284	1.733
21-Deoxycortisol	1.186	0.869	1.242	1.614
Androstenedione	1.556	1.146	1.636	2.127
Cortisol	23.83	16.32	23.31	30.30
Cortisone	7.19	4.46	6.38	8.29
Progesterone	1.407	1.002	1.431	1.860
Testosterone	0.923	0.643	0.918	1.193
17 $\alpha$ -Hydroxyprogesterone	1.204	0.930	1.328	1.726
Dihydrotestosterone	1.049	0.730	1.044	1.357
Corticosterone	3.99	2.70	3.86	5.01
Dexamethasone	5.97	4.26	6.09	7.92
Dehydroepiandrosterone	11.01	7.73	11.88	16.04
Dehydroepiandrosterone-3-sulfate	601	395	607	820
Aldosterone	1.025	0.685	0.978	1.271
17 $\beta$ -Estradiol	0.526	0.375	0.535	0.696
Estrone	0.1742	0.1207	0.1724	0.2241
17 $\alpha$ -Hydroxypregnenolone	4.02	2.95	4.22	5.48

	CONTROL H			
	Concentration found nmol/L	Acceptable range		
		lower limit nmol/L	target value nmol/L	upper limit nmol/L
11.03	7.55	10.79	14.03	
27.23	16.96	26.10	35.23	
28.88	20.07	28.67	37.27	
31.93	20.88	29.83	38.78	
507	346	494	643	
128.0	86.3	123.3	160.3	
29.40	19.62	28.02	36.43	
25.30	17.07	24.38	31.70	
32.40	21.51	30.73	39.95	
4.582	3.146	4.494	5.842	
80.6	54.5	77.8	101.2	
100.3	76.4	109.2	142.0	
117.8	75.6	116.3	157.0	
11163	7586	11671	15755	
9.25	6.31	9.01	11.72	
9.98	6.91	9.86	12.82	
3.261	2.300	3.285	4.271	
82.4	59.4	84.8	110.3	

All results were acquired using this triple quadrupole mass spectrometer (Sciex 5500) using the following mass transitions:

Analyte	ESI	Q1/Precursor [m/z]	Q3 [m/z]	Internal Standard	ESI	Q1/Precursor [m/z]	Q3 [m/z]
11-Deoxycorticosterone	+	331	97	11-Deoxycorticosterone-13C3	+	334	100
11-Deoxycortisol	+	347	97	11-Deoxycortisol-D5	+	352	100
21-Deoxycortisol	+	347	311	21-Deoxycortisol-D8	+	355	319
Androstenedione	+	287	97	Androstenedione-13C3	+	290	100
Cortisol	+	363	121	Cortisol-D4	+	367	121
Cortisone	+	361	163	Cortisone-13C3	+	364	166
Progesterone	+	315	97	Progesterone-D9	+	324	100
Testosterone	+	289	97	Testosterone-13C3	+	292	100
17 $\alpha$ -Hydroxyprogesterone	+	331	97	17 $\alpha$ -Hydroxyprogesterone-D8	+	339	100
Dihydrotestosterone	+	291	255	Dihydrotestosterone-D3	+	294	258
Corticosterone	+	347	121	Corticosterone-13C3	+	350	332
Dexamethasone	+	393	373	Dexamethasone-D5	+	398	378
Dehydroepiandrosterone	+	289	271	Dehydroepiandrosterone-D5	+	294	258
Dehydroepiandrosterone-3-sulfate	+	271	253	Dehydroepiandrosterone-3-sulfate-D5	+	276	258
Aldosterone	-	359	189	Aldosterone-D4	-	363	190
17 $\beta$ -Estradiol	-	271	145	17 $\beta$ -Estradiol-13C3	-	274	148
Estrone	-	269	145	Estrone-13C3	-	272	148
17 $\alpha$ -Hydroxypregnenolone	-	331	287	17 $\alpha$ -Hydroxypregnenolone-13C2-D2	-	335	316

For Kit-Composition and valid edition of the instructions for use, see page 1.

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