Steroid Panel

Tec-Trace™.

NEW

Your method, Our standards, Trusted results.

This product consists of a set of calibrators, controls, and an internal standard.

Calibrators and controls lyophilized
Internal standard in methanol

Flip to see the list of analytes and calibrator ranges

Steroid hormones are important signaling molecules that regulate many important physiological and their underlying biochemical processes. They are found in human and many animal species. The Steroid Panel Tec-Trace is intended to be used as an aid in the analysis of 17 steroid hormones

and dexamethasone, especially using LC-MS methods. This product can be used for a subset of those analytes. This product is developed for value conscious laboratories wishing to implement easy-to-use and high-quality calibrators and controls to increase workflow efficiency.

Steroid Panel Tec-Trace

Catalog number: 30220283

Advantages and values

Product characteristics	User benefits
Conveniently portioned commercial product with steady supply	Save time and resource from self-production & increase overall lab productivity
One comprehensive panel including 17 steroid hormones and dexamethasone	Broad application area with utmost flexibility to adapt to in-house tests
In human blood-based matrix	Best matrix match for blood samples
Calibrator concentrations traceable to SI units according to ISO 17511:2021	Consistent quality of measurement results that builds long-term trust and reduce re-runs
Accurate alignment with certified reference materials from US-NIST and EC-JRC	Excellent correlation with authoritative sources enables inter-lab comparisons

For research use only. Not for use in diagnostic procedures.

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Useful analytes in relevant concentrations

Calibrators are metrologically traceable to SI units according to ISO 17511:2021. Two-level controls are provided as independent checks of analytical run validity. Control levels below are for orientation only. Batch specific values should be used.

Analyte	O	A	B	C	D	E	F	Ctrl L	Ctrl H	ISD
11-Deoxycorticosterone	0.00	0.040	0.11	0.28	0.74	1.94	5.13	0.19	3.54	1.00
11-Deoxycortisol	0.00	0.10	0.26	0.70	1.84	4.86	12.8	0.48	8.84	2.00
17-Hydroxyprogesterone	0.00	0.10	0.26	0.70	1.84	4.86	12.8	0.48	8.84	2.00
21-Deoxycortisol	0.00	0.10	0.26	0.70	1.84	4.86	12.8	0.48	8.84	3.00
Aldosterone	0.00	0.10	0.22	0.46	0.99	2.14	4.59	0.34	3.37	3.00
Androstenedione	0.00	0.10	0.26	0.70	1.84	4.86	12.2	0.48	8.84	2.00
Corticosterone	0.00	0.30	0.79	2.09	5.52	14.6	38.5	1.44	26.5	5.00
Cortisol	0.00	2.00	5.28	13.9	36.8	97.2	256	9.61	177	25.0
Cortisone	0.00	0.50	1.32	3.48	9.20	24.3	64.1	2.40	44.2	5.00
Dexamethasone	0.00	0.50	1.32	3.48	9.20	24.3	64.1	2.40	44.2	20.0
Dehydroepiandrosterone	0.00	1.00	2.15	4.62	9.94	21.4	45.9	3.39	33.7	50.0
Dehydroepiandrosterone sulfate	0.00	50.0	132	348	920	2429	6412	240	4420	500
Dihydrotestosterone	0.00	0.15	0.24	0.38	0.61	0.98	1.57	0.31	1.28	4.00
Progesterone	0.00	0.10	0.26	0.70	1.84	4.86	12.8	0.48	8.84	2.00
Testosterone	0.00	0.040	0.13	0.41	1.31	4.19	13.4	0.27	8.81	1.00
17-Hydroxypregnenolone	0.00	0.30	0.79	2.09	5.52	14.57	38.47	1.44	26.52	4.00
Estradiol	0.00	0.030	0.079	0.21	0.55	1.46	3.85	0.14	2.65	1.00
Estrone	0.00	0.010	0.026	0.070	0.18	0.49	1.28	0.05	0.88	1.00

Ctrl L: control low; Ctrl H: control high; ISD: internal standard (stable isotope labeled)

Accurate alignment with certified reference materials (CRM)

CRMs were measured with the Steroid Panel LC-MS kit (Cat # 30191875) that employs essentially the same set of calibrators. Measured results closely matched certified target values and are within 95 percentiles for all analytes.

Analyte	Sample	Mass Concentration ng/mL		
		Target	Lower 95%	Upper 95%
Testosterone	NIST Female	0.323	0.318	0.328
	Tecan	0.320		
	NIST Male	5.808	5.718	5.898
	Tecan	5.815		
Progesterone	NIST Female	2.63	2.31	2.96
	Tecan	2.37		
	NIST Male	0.0421	0.0361	0.048
	Tecan	0.0402		

Analyte	Sample	Mass Concentration ng/mL		
		Target	Lower 95%	Upper 95%
Estradiol	JRC Low	0.114	0.109	0.119
	Tecan	0.113		
	JRC Medium	0.69	0.65	0.73
	Tecan	0.70		
	JRC High	1.34	1.27	1.41
	Tecan	1.34		
Cortisol	JRC Low	98.8	96.8	100.8
	Tecan	99.2		
	JRC High	277	272	282
	Tecan	274		
Progesterone	JRC	8.5	8.1	8.9
	Tecan	8.7		

NIST: United States National Institute of Standards and Technology
JRC: European Commission Joint Research Centre

Looking for streamlined workflow and maximal efficiency? Check out the automation-ready Steroid Panel LC-MS kit (Cat # 30191875)!

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