Directory of Tests

Saliva, blood spot and dried urine are used for the minimally-invasive hormone testing that is the hallmark of ZRT Laboratory. The simplicity of sample collection and stability of samples in storage and transport have made these ideal for clinical use as well as research. See the table for a list of all our tests and assay methods used.

Saliva						
Analyte	**Abbreviation**	**Methodology**	**Units**	**Test Range**	**Reported Units**	**CPT Code**
Estradiol	E2	LCMS	pg/mL	0.3-500	pg/mL	82670
Estriol	E3	LCMS	pg/mL	0.9-2000	pg/mL	82677
Estrone	E1	LCMS	pg/mL	0.4-500	pg/mL	82679
Ethinyl Estradiol	EE	LCMS	pg/mL	0.4-200	pg/mL	82670
Pregnenolone Sulfate	PregS	LCMS	pg/mL	1-972	pg/mL	84140
Progesterone	Pg	LCMS	pg/mL	5-7000	pg/mL	84144
Allopregnanolone	AlloP	LCMS	pg/mL	15-2500	pg/mL	84140
17OH-Progesterone	17OHPg	LCMS	pg/mL	2-630	pg/mL	83498
Androstenedione	Adione	LCMS	pg/mL	5-2300	pg/mL	82157
Testosterone	T	LCMS	pg/mL	3-5000	pg/mL	84402
5α-Dihydrotestosterone	DHT	LCMS	pg/mL	7-920	pg/mL	82642
Dehydroepiandrosterone	DHEA / D	LCMS	pg/mL	60-1900	pg/mL	82626
Dehydroepiandrosterone Sulfate	DHEAs /DS	LCMS	ng/mL	0.1-40	ng/mL	82627
7-keto Dehydroepiandrosterone	7keto	LCMS	pg/mL	26-4700	pg/mL	82542
11-Deoxycortisol	11DC	LCMS	pg/mL	3-410	pg/mL	82634
Cortisol	C	LCMS	ng/mL	0.1-50	ng/mL	82530
Cortisone	Cn	LCMS	ng/mL	0.1-80	ng/mL	82530
Corticosterone	Cnn	LCMS	pg/mL	4-1800	pg/mL	82528
Aldosterone	Ald	LCMS	pg/mL	10-560	pg/mL	82088
Melatonin	Mel	LCMS	pg/mL	2-10000	pg/mL	82542
Anastrozole	ANZ	LCMS	pg/mL	5-1700	pg/mL	82542
Finasteride	FIN	LCMS	pg/mL	5-5000	pg/mL	82542
Letrozole	LTZ	LCMS	pg/mL	5-5000	pg/mL	82542
Cortisol	C	ECLIA	ng/mL	0.2-50	ng/mL	82530
Dehydroepiandrosterone Sulfate	DHEAs / DS	ECLIA	ng/mL	0.8-80	ng/mL	82627

Blood Spot						
Analyte	**Abbreviation**	**Methodology**	**Units**	**Test Range**	**Reported Units**	**CPT Code**
Estradiol	E2	LCMS	pg/mL	9.8-5621	pg/mL	82670
Estriol	E3	LCMS	pg/mL	40-11900	pg/mL	82677
Estrone	E1	LCMS	pg/mL	14.8-1340	pg/mL	82679
Progesterone	Pg	LCMS	ng/mL	0.13-86.6	ng/mL	84144
Testosterone	T	LCMS	ng/dL	6.6-4430	ng/dL	84403
Dehydroepiandrosterone Sulfate	DHEAs / DS	LCMS	µg/dL	4.4-1124	µg/dL	82627
Cortisol	C	LCMS	µg/dL	0.08-74.8	µg/dL	82533
Vitamin D, 25-OH, D2	D2	LCMS	ng/mL	2-800	ng/mL	82306
Vitamin D, 25-OH, D3	D3	LCMS	ng/mL	2-1000	ng/mL	82306
Zinc	Zn	ICPMS	mg/L	0.039-20	mg/L	84630
Copper	Cu	ICPMS	mg/L	0.006-5	mg/L	82525
Magnesium	Mg	ICPMS	mg/L	0.74-100	mg/L	83735
Selenium	Se	ICPMS	µg/L	4.06-2000	µg/L	84255

Cadmium	Cd	ICPMS	µg/L	0.093-100	µg/L	82300
Lead (Research Only)	Pb	ICPMS	µg/dL	0.265-100	µg/dL	83655
Mercury	Hg	ICPMS	µg/L	0.071-100	µg/L	83825
Sex Hormone Binding Globulin	SHBG	ECLIA	nmol/L	10-300	nmol/L	84270
Prostate-Specific Antigen	PSA	ECLIA	ng/mL	0.3-19.4	ng/mL	84153
Thyroid-Stimulating Hormone	TSH	ECLIA	µIU/mL	0.1-36	µIU/mL	84443
Free T3 / Free Triiodothyronine	FT3	ECLIA	pg/mL	1.40-11	pg/mL	84481
Free T4 / Free Thyroxine	FT4	ECLIA	ng/dL	0.25-2.20	ng/dL	84439
Total T4 / Thyroxine	TT4	ECLIA	µg/dL	2.0-14.4	µg/dL	84436
Thyroglobulin	Tgbn	ECLIA	ng/mL	1-325	ng/mL	84432
Luteinizing Hormone	LH	ECLIA	mIU/mL	0.5-200	mIU/mL	83002
Follicle-Stimulating Hormone	FSH	ECLIA	mIU/mL	0.4-220	mIU/mL	83001
Prolactin	PRL	ECLIA	ng/mL	4.0-127	ng/mL	84146
Cortisol	C	ECLIA	ug/dL	1-35	ug/dL	82530
Anti-Mullerian Hormone	AMH	ECLIA	ng/mL	0.06-11.5	ng/mL	82166
High-Sensitivity C-Reactive Protein	hsCRP	PHOT	mg/L	0.24-11	mg/L	86141
Hemoglobin A1c	HbA1c	PHOT	%	2.3-14.1	%	83036
Triglycerides	TG	PHOT	mg/dL	50-600	mg/dL	84478
Cholesterol	CH	PHOT	mg/dL	100-300	mg/dL	82465
High-Density Lipoprotein	HDL	PHOT	mg/dL	30-80	mg/dL	83718
Insulin	In	EIA	µIU/mL	1-100	µIU/mL	83525
Thyroid Peroxidase Antibodies	TPOab	EIA	IU/mL	1.5-3000	IU/mL	86376

Urine

Analyte	Abbreviation	Methodology	Units	Test Range	Reported Units	CPT Code
Tryptophan	Trp	LCMS	ng/mL	314-30000	µg/g Crtn	82139
Serotonin	5-HT	LCMS	ng/mL	29-1943	µg/g Crtn	84260
5-Hydroxyindoleacetic Acid	5HIAA	LCMS	ng/mL	1242-28901	µg/g Crtn	83497
Gamma-Aminobutyric Acid	GABA	LCMS	ng/mL	4-10768	µg/g Crtn	82139
Glycine	Gly	LCMS	ug/mL	2-523	mg/g Crtn	82139
Taurine	Tau	LCMS	ug/mL	6-500	mg/g Crtn	82139
Glutamate	Glu	LCMS	ng/mL	308-20901	µg/g Crtn	82139
Glutamine	Gln	LCMS	ug/mL	4-500	mg/g Crtn	82139
Histidine	His	LCMS	ug/mL	2-250	mg/g Crtn	82139
Histamine	Hist	LCMS	ng/mL	0.6-1474	µg/g Crtn	83088
N-Methylhistamine	NMeHist	LCMS	ng/mL	22-2000	µg/g Crtn	82542
Phenethylamine	PEA	LCMS	ng/mL	3.2-2074	µg/g Crtn	82542
Tyrosine	Tyr	LCMS	ng/mL	360-40000	µg/g Crtn	84510
Tyramine	Tyra	LCMS	ng/mL	28-2500	µg/g Crtn	82542
Dopamine	DA	LCMS	ng/mL	28-3130	µg/g Crtn	82384
3,4-Dihydroxyphenylacetic Acid	DOPAC	LCMS	ng/mL	190-9546	µg/g Crtn	82384
Homovanillic Acid	HVA	LCMS	ng/mL	626-12955	µg/g Crtn	83150
Norepinephrine	NE	LCMS	ng/mL	0.8-211	µg/g Crtn	82384
Normetanephrine	NMN	LCMS	ng/mL	5.4-114	µg/g Crtn	83835
Epinephrine	Epi	LCMS	ng/mL	0.4-91	µg/g Crtn	82384
Vanillylmandelic Acid	VMA	LCMS	ng/mL	6-12728	µg/g Crtn	84585
Kynurenine	Kyn	LCMS	ng/mL	146-10000	µg/g Crtn	82139
Kynurenic Acid	KynAc	LCMS	ng/mL	118-20000	µg/g Crtn	83921
3-Hydroxykynurenine	3-OHKyn	LCMS	ng/mL	68-30000	µg/g Crtn	82139
Xanthurenic Acid	Xanth	LCMS	ng/mL	64-10000	µg/g Crtn	83921
Creatinine	Crtn	LCMS	mg/mL	0.07-3.5	mg/mL	82570
Free Cortisol	FC	LCMS	ng/mL	0.7-275	µg/g Crtn	82530
Free Cortisone	FCn	LCMS	ng/mL	1.4-3.50	µg/g Crtn	82530

Norepinephrine	NE	LCMS	ng/mL	0.3-514.9	µg/g Crtn	82384
Epinephrine	Epi	LCMS	ng/mL	0.2-459.1	µg/g Crtn	82384
Melatonin	MT6s	LCMS	ng/mL	0.5-1588	µg/g Crtn	82542
Creatinine	Crtn	LCMS	mg/mL	0.07-3.5	mg/mL	82570
Estradiol	E2	GCMS	ng/mL	0.06-25	µg/g Crtn	82670
Estriol	E3	GCMS	ng/mL	0.14-500	µg/g Crtn	82677
Estrone	E1	GCMS	ng/mL	0.08-100	µg/g Crtn	82679
2-OH Estradiol	2-OH E2	GCMS	ng/mL	0.07-10	µg/g Crtn	82670
2-OH Estrone	2-OH E1	GCMS	ng/mL	0.04-25	µg/g Crtn	82679
4-OH Estradiol	4-OH E2	GCMS	ng/mL	0.008-10	µg/g Crtn	82670
4-OH Estrone	4-OH E1	GCMS	ng/mL	0.09-25	µg/g Crtn	82679
16α-OH Estrone	16aOH E1	GCMS	ng/mL	0.02-100	µg/g Crtn	82679
2-MeO Estradiol	2-MeO E2	GCMS	ng/mL	0.005-10	µg/g Crtn	82670
2-MeO Estrone	2-MeO E1	GCMS	ng/mL	0.002-25	µg/g Crtn	82679
4-MeO Estradiol	4-MeO E2	GCMS	ng/mL	0.006-10	µg/g Crtn	82670
4-MeO Estrone	4-MeO E1	GCMS	ng/mL	0.002-10	µg/g Crtn	82679
Bisphenol A	BPA	GCMS	ng/mL	1.49-10	µg/g Crtn	82542
Pregnanediol	Pgdiol	GCMS	ng/mL	9.76-5000	µg/g Crtn	84135
Allopregnanolone	AlloP	GCMS	ng/mL	0.12-25	µg/g Crtn	84140
Allopregnanediol	AlloPd	GCMS	ng/mL	0.36-400	µg/g Crtn	84135
3α-Dihydroprogesterone	3aHP	GCMS	ng/mL	0.02-10	µg/g Crtn	84144
20α-Dihydroprogesterone	20aHP	GCMS	ng/mL	0.06-25	µg/g Crtn	83498
Deoxycorticosterone	DOC	GCMS	ng/mL	0.02-10	µg/g Crtn	82633
Corticosterone	Ccn	GCMS	ng/mL	0.09-50	µg/g Crtn	82528
Total Cortisol	TC	GCMS	ng/mL	0.25-400	µg/g Crtn	82533
Total Cortisone	TCn	GCMS	ng/mL	0.29-400	µg/g Crtn	82533
Tetrahydrocortisol	Thc	GCMS	ng/mL	4.21-2000	µg/g Crtn	82696
Tetrahydrocortisone	ThCn	GCMS	ng/mL	0.2-200	µg/g Crtn	83491
Dehydroepiandrosterone	DHEA	GCMS	ng/mL	1.01-2500	µg/g Crtn	82626
Androstenedione	Adione	GCMS	ng/mL	0.36-25	µg/g Crtn	82157
Androsterone	Andro	GCMS	ng/mL	2.18-2500	µg/g Crtn	82160
Etiocholanolone	Etio	GCMS	ng/mL	3.56-2500	µg/g Crtn	82696
Testosterone	T	GCMS	ng/mL	0.11-200	µg/g Crtn	84403
Epi-Testosterone	Epi-T	GCMS	ng/mL	0.02-200	µg/g Crtn	82542
5α-Dihydrotestosterone	5a-DHT	GCMS	ng/mL	0.02-50	µg/g Crtn	82642
5α,3α-Androstanediol	5a3a	GCMS	ng/mL	0.07-25	µg/g Crtn	82154
Creatinine	Crtn	GCMS	mg/mL	0.07-3.5	mg/mL	82570
Iodine	I	ICPMS	µg/L	1.86-10000	µg/g Crtn	84311
Bromine	Br	ICPMS	µg/L	37.8-100000	µg/g Crtn	84311
Selenium	Se	ICPMS	µg/L	1.96-1000	µg/g Crtn	84255
Lithium	Li	ICPMS	µg/L	0.38-10000	µg/g Crtn	80178
Arsenic	As	ICPMS	µg/L	0.21-1000	µg/g Crtn	82175
Cadmium	Cd	ICPMS	µg/L	0.136-100	µg/g Crtn	82300
Mercury	Hg	ICPMS	µg/L	0.045-100	µg/g Crtn	83825
Creatinine	Crtn	ICPMS	mg/mL	0.03-4	mg/mL	82570
Estrone-3-Glucuronide	E1G	EIA	ng/mL	4-466	ng/mg Crtn	82679
Pregnanediol-3-Glucuronide	PDG	EIA	ng/mL	57.6-30691	ng/mg Crtn	84135
Luteinizing Hormone	LH	EIA	mIU/mL	1.1-400	mIU/mg Crtn	83002
Creatinine	Crtn	EIA	mg/mL	0.03-4.0	mg/mL	82570