

ELISA

External Control Material (Serum)

IVD Bio-Rad Lyphochek® Immunoassay Plus Control

 USA, Bio-Rad Laboratories Inc.

Update 14.02.2025

IBL Product	Kit Catalog-No.	Bio-Rad Catalog-No.	Bio-Rad Lot	Expiry date	Dilution	Unit	Level 1			Level 2			Level 3		
							Mean	Lower limit	Upper limit	Mean	Lower limit	Upper limit	Mean	Lower limit	Upper limit
17-OH-Progesterone ELISA	RE52071	370 / 370X	40420	2025-03-31	-	ng/mL	0.54	0.16	0.86	2.34	1.24	3.34	6.69	3.33	9.35
			40430	2025-10-31	-	ng/mL	0.61	0.21	1.00	2.33	1.28	3.37	6.21	3.41	9.00
			40440	2026-02-28	-	ng/mL	0.46	0.16	0.76	2.21	1.22	3.21	6.14	3.38	8.90
			40450	2026-08-31	-	ng/mL	0.61	0.21	1.01	2.42	1.33	3.51	7.53	4.14	10.92
			40460	2027-03-31	-	ng/mL	0.77	0.27	1.26	2.39	1.31	3.46	7.26	3.99	10.53
			40470	2028-01-31	-	ng/mL	0.59	0.21	0.97	2.37	1.30	3.44	5.86	3.22	8.50
Aldosterone ELISA	RE52301	370 / 370X	40420	2025-03-31	-	pg/mL	90	49	130	284	156	412	-	465	> 1000
			40430	2025-10-31	-	pg/mL	76.7	42.2	111	330	182	479	860	473	> 1000
			40440	2026-02-28	-	pg/mL	84.8	46.6	123	342	188	496	843	464	> 1000
			40450	2026-08-31	-	pg/mL	80.0	44.0	116	298	164	432	904	497	> 1000
			40460	2027-03-31	-	pg/mL	83.9	46.2	122	327	180	474	996	548	> 1000
			40470	2028-01-31	-	pg/mL	83.4	45.9	121	381	210	552	961	528	>1000
Androstendione ELISA	DB52161	370 / 370X	40420	2025-03-31	-	ng/mL	0.52	0.29	0.75	1.5	0.8	2.2	3.7	2.0	5.3
			40430	2025-10-31	-	ng/mL	0.48	0.27	0.70	1.35	0.74	1.96	3.19	1.76	4.63
			40440	2026-02-28	-	ng/mL	0.39	0.22	0.57	1.01	0.55	1.46	2.33	1.28	3.38
			40450	2026-08-31	-	ng/mL	0.50	0.28	0.73	1.34	0.74	1.94	3.42	1.88	4.96
			40460	2027-03-31	-	ng/mL	0.54	0.30	0.79	1.64	0.90	2.37	3.46	1.90	5.02
			40470	2028-01-31	-	ng/mL	0.67	0.37	0.98	1.97	1.08	2.86	4.28	2.36	6.21
Cortisol Serum ELISA	RE52061	370 / 370X	40420	2025-03-31	-	ng/mL	34	26	42	191	148	233	338	275	401
			40430	2025-10-31	-	ng/mL	30	24	36	226	181	271	364	291	436
			40440	2026-02-28	-	ng/mL	38	25	50	219	175	263	366	293	439
			40450	2026-08-31	-	ng/mL	38	29	46	245	196	294	399	319	479
			40460	2027-03-31	-	ng/mL	38	31	46	285	190	237	346	277	415
DHEA ELISA	RE52221	370 / 370X	40420	2025-03-31	-	ng/mL	0.22	0.12	0.32	1.72	0.95	2.50	2.26	1.24	3.27
			40430	2025-10-31	-	ng/mL	0.18	0.10	0.26	1.71	0.94	2.49	2.17	1.19	3.14
			40440	2026-02-28	-	ng/mL	0.31	0.17	0.45	4.60	0.88	2.32	1.95	1.07	2.82
			40450	2026-08-31	-	ng/mL	0.98	0.54	1.42	2.22	1.22	3.23	2.48	1.36	3.59
			40460	2027-03-31	-	ng/mL	1.03	0.82	1.24	2.01	1.60	2.41	4.96	3.97	5.95
			40470	2028-01-31	-	ng/mL	0.83	0.46	1.20	1.75	0.96	2.53	4.12	2.26	5.97

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							Mean	Lower limit	Upper limit	Mean	Lower limit	Upper limit	Mean	Lower limit	Upper limit
DHEA-S ELISA	RE52181	370 / 370X	40420	2025-03-31	-	µg/mL	0.83	0.54	1.12	2.03	1.32	2.74	8.12	5.28	10.96
			40430	2025-10-31	-	µg/mL	0.87	0.56	1.17	2.34	1.52	3.16	7.44	4.84	10.04
			40440	2026-02-28	-	µg/mL	0.79	0.52	1.07	1.99	1.29	2.69	6.75	4.39	9.11
			40450	2026-08-31	-	µg/mL	0.84	0.55	1.13	2.43	1.58	3.28	8.51	5.53	11.49
			40460	2027-03-31	-	µg/mL	0.83	0.54	1.12	2.21	1.44	2.98	7.51	4.88	10.14
Estradiol ELISA	RE52041	370 / 370X	40420	2025-03-31	-	pg/mL	136	76	196	437	245	630	927	519	1335
			40430	2025-10-31	-	pg/mL	147	82	212	467	261	672	940	526	1353
			40440	2026-02-28	-	pg/mL	129	73	186	387	217	558	961	538	1384
			40450	2026-08-31	-	pg/mL	134	75	192	414	232	596	870	487	1253
			40460	2027-03-31	-	pg/mL	144	81	208	440	246	633	850	476	1224
			40470	2028-01-31	-	pg/mL	167	94	240	454	254	654	874	489	1258
free T3 ELISA	RE55231	370 / 370X	40420	2025-03-31	-	pg/mL	2.39	1.67	3.11	4.57	3.20	5.94	6.92	4.85	9.00
			40430	2025-10-31	-	pg/mL	2.66	1.86	3.45	5.20	3.64	6.76	7.25	5.07	9.42
			40440	2026-02-28	-	pg/mL	2.53	1.77	3.29	4.89	3.42	6.36	6.80	4.76	8.84
			40450	2026-08-31	-	pg/mL	2.71	1.90	3.53	4.88	3.42	6.34	7.28	5.10	9.47
			40460	2027-03-31	-	pg/mL	2.49	1.74	3.23	4.81	3.37	6.25	7.12	4.98	9.25
			40470	2028-01-31	-	pg/mL	2.11	1.48	2.74	4.60	3.22	5.97	7.23	5.06	9.40
free T4 ELISA	RE55241	370 / 370X	40420	2025-03-31	-	ng/dL	0.93	0.55	1.35	2.10	1.47	2.73	2.94	2.06	3.82
			40430	2025-10-31	-	ng/dL	1.10	0.77	1.44	2.07	1.45	2.69	2.64	1.85	3.44
			40440	2026-02-28	-	ng/dL	1.02	0.69	1.36	2.17	1.52	2.82	2.68	1.87	3.48
			40450	2026-08-31	-	ng/dL	0.96	0.67	1.25	1.83	1.28	2.38	2.60	1.82	3.38
			40460	2027-03-31	-	ng/dL	0.76	0.47	1.05	1.74	1.22	2.26	3.22	2.25	4.19
			40470	2028-01-31	-	ng/dL	0.96	0.67	1.25	1.92	1.34	2.50	3.15	2.20	4.09
Free Testosterone II.Gen ELISA	DM52181	370 / 370X	40420	2025-03-31	-	pg/mL	2.0	1.3	2.6	8.4	5.2	11.7	22.2	14.7	29.6
			40430	2025-10-31	-	pg/mL	2.3	1.6	2.9	9.2	6.5	12.0	22.9	16.0	29.8
			40440	2026-02-28	-	pg/mL	2.0	1.4	2.6	8.4	5.2	11.5	19.2	11.7	26.7
			40450	2026-08-31	-	pg/mL	1.8	1.2	2.3	8.1	5.4	10.8	18.9	12.5	25.2
			40460	2027-03-31	-	pg/mL	2.0	1.2	2.8	7.6	4.6	10.5	23.2	14.2	32.3
			40470	2028-01-31	-	pg/mL	2.1	1.3	2.9	7.8	4.8	10.9	19.0	11.6	26.4

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Free Testosterone ELISA	DB52181	370 / 370X	40420	2025-03-31	-	pg/mL	3.6	2.9	4.3	13.7	10.9	16.4	36.4	29.1	43.6
			40430	2025-10-31	-	pg/mL	3.4	2.7	4.1	12.6	10.1	15.2	32.4	26.0	38.9
			40440	2026-02-28	-	pg/mL	3.6	2.8	4.3	13.1	10.4	15.9	30.4	24.3	36.5
			40450	2026-08-31	-	pg/mL	3.9	2.7	5.2	13.3	10.6	15.9	29.7	23.7	35.6
			40460	2027-03-31	-	pg/mL	4.4	3.5	5.2	12.5	10.0	15.0	37.4	29.9	44.8
			40470	2028-01-31	-	pg/mL	4.0	3.1	4.9	11.5	8.5	14.5	27.4	23.6	31.3
FSH ELISA	RE52121	370 / 370X	40420	2025-03-31	-	mIU/mL	6.7	3.7	9.8	21.3	11.7	30.9	40.3	22.2	58.5
			40430	2025-10-31	-	mIU/mL	7.4	4.1	10.8	20.7	11.4	30.0	38.9	21.4	56.5
			40440	2026-02-28	-	mIU/mL	6.3	3.4	9.1	18.5	10.2	26.8	35.2	19.4	51.0
			40450	2026-08-31	-	mIU/mL	9.4	5.2	13.6	20.3	11.2	29.5	38.5	21.2	55.8
			40460	2027-03-31	-	µIU/mL	5.2	2.8	7.5	19.0	10.5	27.6	33.2	18.2	48.1
			40470	2028-01-31	-	µIU/mL	6.6	3.6	9.5	20.8	11.5	30.2	33.0	18.1	47.8
Insulin ELISA	RE53171	370 / 370X	40420	2025-03-31	-	µIU/mL	17.7	9.8	25.7	73.1	40.2	106.0	> 100	-	-
			40430	2025-10-31	-	µIU/mL	20.7	11.4	30.0	83.9	46.1	122.0	> 100	-	-
			40440	2026-02-28	-	µIU/mL	16.5	9.1	24.0	74.9	41.2	> 100	> 100	-	-
			40450	2026-08-31	-	µIU/mL	17.7	9.7	25.7	82.8	45.5	> 100	> 100	-	-
			40460	2027-03-31	-	µIU/mL	15.0	8.24	21.7	75.0	41.2	> 100	-	-	-
			40470	2028-01-31	-	µIU/mL	10.7	5.87	15.5	83.3	45.8	>100	>100	-	-
Progesterone ELISA	RE52231	370 / 370X	40420	2025-03-31	-	ng/mL	0.66	0.36	0.96	9.4	5.2	13.7	-	21.80	> 40
			40430	2025-10-31	-	ng/mL	0.68	0.37	0.98	7.6	4.2	11.1	39.7	21.9	> 40
			40440	2026-02-28	-	ng/mL	0.76	0.42	1.10	7.8	4.3	11.4	39.8	21.9	> 40
			40450	2026-08-31	-	ng/mL	0.81	0.45	1.18	8.1	4.5	11.8	36.6	20.1	> 40
			40460	2027-03-31	-	ng/mL	0.74	0.41	1.08	9.0	4.9	13.0	30.5	16.8	> 40
			40470	2028-01-31	-	ng/mL	0.94	0.52	1.36	10.4	5.7	15.1	31.8	17.5	>40
Testosterone Serum ELISA	RE52151	370 / 370X	40420	2025-03-31	-	ng/mL	1.16	0.92	1.39	3.08	2.46	3.70	7.06	5.65	8.47
			40430	2025-10-31	-	ng/mL	1.15	0.92	1.38	3.11	2.49	3.73	6.89	5.51	8.27
			40440	2026-02-28	-	ng/mL	1.13	0.90	1.35	2.96	2.37	3.55	5.92	4.73	7.10
			40450	2026-08-31	-	ng/mL	1.27	1.02	1.52	3.52	2.82	4.23	6.89	5.51	8.27
			40460	2027-03-31	-	ng/mL	1.13	0.91	1.36	2.67	2.14	3.21	6.84	5.47	8.20