

APPENDIX J: reference ranges (Lifelabs)

Accurate as of Aug 7, 2019

Note: Reference ranges may vary between laboratories.
It is highly recommended to compare results to
reference ranges from the specific laboratory used.

17-Beta-Estradiol

	Age (yrs)		Serum level (pmol/L)
Female	14-18		<937
	>18	follicular phase	77-921
		mid-cycle	139-2382
		luteal	77-1145
		post-menopause	<103
Male	15-18		<142
	>18		<162

Luteinizing Hormone

	Age (yrs)		Serum level (IU/L)
Female	17-18		<8.5
	>18	follicular phase	2.0-12.0
		mid-cyclie	8.0-90.0
		luteal	1.0-14.0
		post-menopausal	5.0-62.0
Male	17-18		0.9-7.1
	>18		1.0-7.0

Total Testosterone

	Age (yrs)	Serum level (nmol/L)
Female	13-50	<1.8
	>50	<1.5
Male		8.4-28.8

Free Testosterone

	Age (yrs)	Serum level (pmol/L)
Female	≤10-29	<56
	≥30	<30
Male	≤10-49	196-636
	≥50	179-475

Note: The ordering of free testosterone is not routinely recommended (see [Guidelines for gender-affirming primary care with trans and non-binary patients, Part II: Monitoring and dose adjustments](#)). The reference ranges for free testosterone listed here are calculated via the Vermulean equation according to the current practice at Lifelabs.