



NUTRITIONAL LAB  
SERVICES

PO BOX 4233  
BURWOOD EAST VIC

Lab id : **12345678**

## Test Multi 5

Date of Birth : December 26, 1970

Sex : F




Collected : October 20, 2008

www.nlabs.com.au

Ph: (03) 9803 5335 Fax: (03) 9888 5811

### ENDOCRINOLOGY SALIVA

SALIVA

	<u>Result</u>	<u>Range</u>		
<b>Estrone (E1)</b>	<b>&lt;2.8 *l</b>	9.6 - 20.0	pmol/L	
<b>Estradiol (E2)</b>	<b>9.4</b>		pmol/L	
<b>Progesterone (P4)</b>	<b>333.3</b>		pmol/L	
<b>P4/E2 Ratio (Saliva)</b>	<b>35.5</b>		RATIO	
<b>Testosterone.</b>	<b>33.6</b>	25.0 - 190.0	pmol/L	
<b>Cortisol Morning</b>	<b>69.90 *h</b>	6.00 - 42.00	nmol/L	

(\* ) Outside reference range.

(h) Above reference range.

(l) Below reference range.



**Saliva Hormone Comments**

SALIVARY HORMONE REFERENCE RANGES: (NOT ON HRT - BASELINE)

	E2	E1	E3	Progesterone	DHEAS
<b>FEMALE</b>					
Follicular	<18	9.6-20	15-29	<318	
Mid-Cycle	11-29	9.6-20	15-29	-	
Luteal	<18	9.6-20	15-29	318-1590	
Post Men.	<6	9.6-20	1-41	<159	<6.5
Premenopausal, no oral contraceptives					2.5-25.0
Premenopausal, with oral contraceptives					2.0-8.0
<b>MALE</b>					
	<6	9.6-20	16-25	<159	5.0-30.0

TARGET REFERENCE RANGES: (ON HRT - 24hr post last dose)

	E2	E1	E3	Progesterone	Testosterone Age Dpndt
Oral	7-73	-	69-139	318-1590	
Patch	4-18	-	-	-	
Cream/Gel	37-184	-	1040-1734	3180-31797	F: 277-867 M: 347-1734

SALIVA E1 (Estrone) is produced primarily from androstenedione originating from the gonads or the adrenal cortex. In premenopausal women, more than 50% of the E1 is secreted by the ovaries. In prepubertal children, men and non-supplemented postmenopausal women, the major portion of E1 is derived from peripheral tissue conversion of androstenedione. Interconversion of E1 & E2 also occurs in peripheral tissue. Bioassay data indicate that the estrogenic action is much less than E2. E1 is a primary estrogenic component of several pharmaceutical preparations, including those containing conjugated and esterified estrogens. In premenopausal women E1 levels generally parallel those of E2. After menopause E1 levels increase, possibly due to increased conversion of androstenedione to E1.

SALIVA E1 level is below reference range. E1 result should be interpreted relative to the total estrogens. A low E1 is preferable.

SALIVA E2 levels for a non-menopausal female should be assessed relative to the day of cycle that the specimen was collected.

SALIVA E2 level is adequate and within range.

SALIVA The Progesterone level is within range and suggestive of luteal phase. Aim for a ratio of E2:Prog of 1:200 during this phase of cycle.

SALIVA - AM Cortisol level is elevated. Is this due to supplementation, adrenal stress, inflammation, medication or fasting?

Morning Cortisol is a good indicator of peak adrenal gland function, since it represents peak cyclic activity. High Cortisol reflects HPA axis imbalance and morning hypoglycaemia or stress.

SALIVA Free testosterone level is low and suggestive of the need for supplementation

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with 1% transdermal testosterone.

**NLS Comment**

If indicated, suggest seeking advise from a qualified health care provider.