



**TEST PATIENT**

Date of Birth : 01-Jan-1963  
 Sex : F  
 Collected : 09-Nov-2014

**Dr TEST DOCTOR**

Lab id :

**INTEGRATIVE MEDICINE**

URINE, SPOT

Result

Range

Units

**EXTENSIVE NEUROTRANSMITTER PROFILE**

**Inhibitory Neurotransmitters**

<b>SEROTONIN Urine</b>	<b>64.9</b>	47.6 - 140.3	ug/gCR	
<b>GABA, Urine</b>	<b>43.0 *L</b>	167.0 - 463.0	ug/gCR	

**Excitatory Neurotransmitters**

<b>GLUTAMATE Urine</b>	<b>1351.0</b>	1213.0 - 4246.	ug/gCR	
<b>DOPAMINE, Urine</b>	<b>191.0</b>	103.0 - 282.0	ug/gCR	
<b>NORADRENALIN (Nor-Epinephrine)</b>	<b>10.8</b>	10.0 - 35.7	ug/gCR	
<b>ADRENALIN (Epinephrine)</b>	<b>1.9</b>	0.8 - 6.2	ug/gCR	

**Adrenal Adaptation Index**

<b>Noradrenalin/Adrenalin Ratio</b>	<b>5.7</b>	2.9 - 25.2	RATIO	
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**Optimal Ranges Table**

**Biomarker**                      **Adult Optimal Range (>11 Yrs)**

Serotonin	100 - 215	ug/gCr
GABA	400 - 600	ug/gCr
Glycine	61 - 159	ug/gCr
Glutamate	2520 - 3700	ug/gCr
Histamine	5.2 - 15.3	ug/gCr
PEA	5.3 - 16.1	ug/gCr
DOPAMINE	200 - 330	ug/gCr
Noradrenaline	18.5 - 25.5	ug/gCr
Adrenaline	1.4 - 4.2	ug/gCr

There are multiple factors that play roles in neurotransmitter levels (Lifestyle, receptors, meds, supplements, diet, stress, etc). The optimal reference ranges stated above have been determined/derived statistically from historical patient data. Historically, these levels were achieved in the majority of patients as they experienced symptom relief or improvement.



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**Creatinine, Urine Spot.**

**2.7 \*L** 8.0 - 19.0

mmol/L

