

Biolab reference: **XXXX\XXXX\G19**

Patient: **SAMPLE REPORT**

Referred by: **SAMPLE REPORT**

Date of birth: **09/05/2012**

Your reference:

Sex: **Male**

Date: **17/07/2019**

Sample date: **15/07/2019**

## Hair Mineral and Toxic Element Analysis

(by Inductively Coupled Plasma - Mass Spectrometry [ICP-MS])

Hair Colour: **BROWN**

Bleach:

Height: **97cm**

Highlight:

Weight: **22Kg**

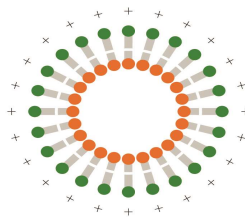
Perm:

Shampoo: **Supermarket brand**

Tint:

Conditioner:

Minerals	Result µg/gram of hair	Reference interval		Visual Scale		
		Low	High	Low	Normal	High
Calcium	<b>333</b>	200	2800	[Bar chart showing 333 is above the normal range]		
Magnesium	<b>16</b>	60	160	[Bar chart showing 16 is below the low range]		
Phosphorus	<b>136</b>	100	200	[Bar chart showing 136 is within the normal range]		
Sodium	<b>128</b>	50	1000	[Bar chart showing 128 is within the normal range]		
Potassium	<b>210</b>	50	300	[Bar chart showing 210 is within the normal range]		
Iron	<b>7.0</b>	5.0	30.0	[Bar chart showing 7.0 is within the normal range]		
Copper	<b>14</b>	10	100	[Bar chart showing 14 is within the normal range]		
Zinc	<b>136</b>	160	240	[Bar chart showing 136 is below the low range]		
Chromium	<b>0.15</b>	0.10	1.50	[Bar chart showing 0.15 is within the normal range]		
Manganese	<b>0.16</b>	0.20	2.00	[Bar chart showing 0.16 is below the low range]		
Selenium	<b>0.38</b>	0.40	2.00	[Bar chart showing 0.38 is below the low range]		
Cobalt	<b>0.01</b>	0.01	0.20	[Bar chart showing 0.01 is at the low range]		



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## Hair Mineral and Toxic Element Analysis

Toxic Metals	Result	Reference interval	Acceptable		Raised
	µg/gram of hair		50.0	1.00	
Aluminium	<b>23</b>	≤50			
Arsenic	<b>7.4</b>	≤1.0			
Cadmium	<b>0.03</b>	≤0.10			
Lead	<b>2.60</b>	≤2.00			
Mercury	<b>0.30</b>	≤1.00			
Nickel	<b>0.35</b>	≤1.40			

Hair element ratios	Percentile		
	21 : 1	2.5 <sup>th</sup>	97.5 <sup>th</sup>
Calcium / Magnesium	21 : 1	3.6 : 1	36.3 : 1
Calcium / Phosphorus	2.4 : 1	1.8 : 1	21.3 : 1
Sodium / Potassium	0.6 : 1	0.4 : 1	3.4 : 1
Zinc / Copper	9.7 : 1	2.1 : 1	18.1 : 1
Zinc / Lead	52 : 1	≥	104 : 1
Zinc / Cadmium	4533:1	≥	1989 : 1
Selenium / Cadmium	12.7 : 1	≥	5.8 : 1
Selenium / Mercury	1.3 : 1	≥	0.5 : 1

1. Certified Reference Material no. 13, Human Hair, National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki, 305-8506, Japan