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## REPORT OF ANALYSIS

Ventana Plant Science Products - Heavy Metals Analysis

Analysis	Level Found	Reporting			Analyst- Date	Verified- Date	
	As Received	Units	Limit	Method			
Sample ID: <b>Ventana Plant Science Support</b>	Lab Number: <b>8884018</b>	Date Sampled: <b>2021-03-19</b>					
Arsenic (total)	n.d.	mg/kg	5.0	EPA 6010	ery3-2021/03/25	kkh9-2021/03/30	
Cadmium (total)	n.d.	mg/kg	0.50	EPA 6010	ery3-2021/03/25	kkh9-2021/03/30	
Cobalt (total)	n.d.	mg/kg	1.00	EPA 6010	ery3-2021/03/25	kkh9-2021/03/30	
Copper (total)	n.d.	mg/kg	1	EPA 6010	ery3-2021/03/25	kkh9-2021/03/30	
Lead (total)	n.d.	mg/kg	5.0	EPA 6010	ery3-2021/03/25	kkh9-2021/03/30	
Mercury (total)	n.d.	mg/kg	0.05	EPA 7471	pjd8-2021/03/30	kkh9-2021/03/30	
Molybdenum (total)	n.d.	mg/kg	1.0	EPA 6010	ery3-2021/03/25	kkh9-2021/03/30	
Nickel (total)	n.d.	mg/kg	1.0	EPA 6010	ery3-2021/03/25	kkh9-2021/03/30	
Selenium (total)	n.d.	mg/kg	5.0	EPA 6010	ery3-2021/03/25	kkh9-2021/03/30	
Zinc (total)	n.d.	mg/kg	2.0	EPA 6010	ery3-2021/03/25	kkh9-2021/03/30	

Sample(s) was prepared for EPA 6010 analysis by EPA 3050b.

All results are reported on an AS RECEIVED basis., n.d. = not detected , ppm = parts per million, ppm = mg/kg

For questions please contact:

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The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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### **Detailed Method Description(s)**

#### **ME 042**

Analysis follows MWL ME 042 which is based on EPA 6010b, Inductively Coupled Plasma (ICP). A light emission technique where prepared samples are injected into a high energy plasma that forces the elements in the injected sample to emit light energies which are proportional to the level of minerals and metals present. The light is then detected and correlated to the levels of minerals and metals in the original sample.

#### **ME 067**

Samples are analyzed for mercury using MWL ME 067 which is based upon EPA 7471, cold vapor atomic absorption (CVAA).

Samples are prepared via MWL ME 037 that uses a series of digestion steps involving hot mineral acids and oxidizers so as to destroy organic matter and solubilize mercury. The mercury is reduced by use of stannous chloride to elemental mercury that is then aerated to the light path of a mercury light of an atomic absorption spectrometer (AAS). The absorption of the mercury light at 253.7 nm is then correlated to the level of mercury present in the original sample.

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