

## CERTIFICATE OF CONFORMANCE

Product Name: PRATLEY VULTURE CREEK CLINO, ULTRAFINE  
 Product Number: 99087  
 Customer Name: BIO-SIL SA  
 Order Number: 23.02.21  
 Invoice Number: PSIN352587  
 Batch Number: 040220  
 Packing date: 2020 February 04  
 Expiry Date: If stored correctly, this material has an indefinite shelf life  
 Amount of material: 2x25kg

	<b>Test method</b>	<b>Typical Result</b>
<b>Appearance</b>	Visual	No visible foreign debris, humus or other organic material.
<b>Identity</b>	XRD match to ICDD PDF file/files: 01-082-1228 Heulandite - Na 00-039-1383 Clinoptilolite - Ca 04-016-1825 Clinoptilolite - Na 01-072-7919 Clinoptilolite - Na 01-077-8376 Barrierite (Clinoptilolite - Ba) 04-014-8682 Clinoptilolite - Na 04-016-9929 Clinoptilolite - Ca, Ba, Na, Mg	>85%
<b>Particle size</b>	Malvern Mastersizer 2000	D(90) <40μ
<b>Bulk (tamped) density</b>	RL 6-6-3	260 – 340 kg/m <sup>3</sup>
<b>Free water</b>	110°C for 24 hours	<6%
<b>Cation Exchange Capacity, CEC</b>	Ammonia, RL 6-6-3	1.2 - 1.5 m <sub>eq</sub> /g
<b>Chemical Composition (elemental weight percentage)</b>	Acid digestion, ICP-OES, ICP-MS	
	SiO <sub>2</sub>	65 – 75 %
	Al <sub>2</sub> O <sub>3</sub>	11 – 15 %
	K <sub>2</sub> O	2 – 6 %
	Na <sub>2</sub> O	1 – 3 %
	CaO	<2.0 %
	MgO	<1.5 %
	Loss on Ignition	6 – 14 %

*(this document is not signed as it is electronically generated)*

This certifies that the material has been produced using established methods and conforms to the abovementioned criteria.

Document Number: COC ULTRAFINE Revision 02

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