

CERTIFICATE OF ANALYSIS



PRODUCT INFORMATION

Product Name:	Humic Powder
Product Code:	E05NP
Product Lot Number:	22H26-1100-E05NP
Manufacture Date:	August 26, 2022
Specification	SP-E05NP
Manufacturer:	FulvicXcell Products Ltd.
Product Matrix	Powder

Composition	Humic Acids as Potassium Salts (Aqueous Extracts of Humalite); RO Water;
Storage Conditions:	Ambient—room temperature (10 – 25 C), do not freeze; open in dry location; avoid prolonged exposure to direct sunlight.
Retest Date:	August 2027
Location of Production Facility:	West Kelowna, British Columbia, Canada
Origin of Humic Substances:	Alberta, Canada

QUALITY & PURITY

Physical Attributes

Parameter	Test Method	Tolerance	Result
Appearance	Organoleptic	Very dark brown to black, shiny to dull, fine powder	Within Tolerance
pH	Electrometry	5.0-7.0	5.63
Moisture	Vacuum oven	≤ 10%	4.0 %

Microbiological Contaminants

Parameter	Test Method	Tolerance	Unit	Result
Aerobic Plate Count	Current USP/NF, 2021	≤ 10,000	CFU/g	3400 CFU/g
Mold and Yeast (combined)	Current USP/NF, 2021	≤ 1,000	CFU/g	<40 CFU/g
E. coli	Current USP/NF, 2022	Absent	Per 10g	Absent
Salmonella	Current USP/NF, 2022	Absent	Per 10g	Absent
Staphylococcus aureus	Current USP/NF, 2022	Absent	Per 10g	Absent
Pseudomonas aeruginosa	Current USP/NF, 62	Absent	Per 10g	Absent

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Heavy Metal Impurities

<i>Parameter</i>	<i>Test Method</i>	<i>Tolerance (mg/kg)</i>	<i>Result (mg/kg)</i>
Arsenic	ICP-MS	5.0	1.2
Cadmium	ICP-MS	0.3	0.2
Lead	ICP-MS	10.0	5.7
Mercury	ICP-MS	0.2	0.0

Mineral Content

<i>Parameter</i>	<i>Test Method</i>	<i>Tolerance</i>	<i>Result (mg/kg)</i>
Aluminum	ICP-MS	Report Results	4630
Antimony	ICP-MS	Report Results	0.30
Barium	ICP-MS	Report Results	143
Beryllium	ICP-MS	Report Results	0.88
Bismuth	ICP-MS	Report Results	0.1
Boron	ICP-MS	Report Results	93.4
Calcium	ICP-MS	Report Results	18500
Chromium	ICP-MS	Report Results	7.67
Cobalt	ICP-MS	Report Results	5.26
Copper	ICP-MS	Report Results	7.05
Iron	ICP-MS	Report Results	5700
Lithium	ICP-MS	Report Results	3.6
Magnesium	ICP-MS	Report Results	1710
Manganese	ICP-MS	Report Results	211
Molybdenum	ICP-MS	Report Results	0.61
Nickel	ICP-MS	Report Results	11.8
Phosphorus	ICP-MS	Report Results	28
Potassium	ICP-MS	Report Results	40900
Selenium	ICP-MS	Report Results	2.2
Silver	ICP-MS	Report Results	0.03
Sodium	ICP-MS	Report Results	3750

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Mineral Content

Parameter	Test Method	Tolerance	Result (mg/kg)
Strontium	ICP-MS	Report Results	156
Thallium	ICP-MS	Report Results	0.11
Tin	ICP-MS	Report Results	0.26
Titanium	ICP-MS	Report Results	382
Uranium	ICP-MS	Report Results	1.34
Vanadium	ICP-MS	Report Results	7.43
Zinc	ICP-MS	Report Results	40.1
Zirconium	ICP-MS	Report Results	43.4

Glossary

CFU = Colony Forming Unit
USP/NF = United States Pharmacopeia / The National Formulary

PRODUCT RELEASE

Conformance to Tolerances

Parameters (Specifications)	PASS
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Approval

Approved By	Signature
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Faezeh Dousty
Quality Assurance Manager

A handwritten signature in black ink, appearing to be "Faezeh", written over a horizontal line.

September 22, 2022