

PHYCOTERRA[®] ST SPECIFICATION

Test item	Specifications*	Reference/ Method
PHYSICAL PROPERTIES		
1	Organoleptic (color/odor/appearance)	Greenish liquid, flowable with suspended solids. Typical odor
		USP <563>
2	pH	3.5 -4.0
		150.1
3	Total Organic Carbon	≥ 4.0 %
		415.1
4	Organic Matter	≥ 9.0 %
		ASTM D2974-87
5	C:N Ratio	7:1
		415.1; AOAC 993.13
N – P – K (w/w)		
5	Total Nitrogen (N)	≥ 0.30 %
		AOAC 993.13
6	Phosphorous (P ₂ O ₅)	≥ 0.30 %
		AOAC 2015.18
7	Potassium (K ₂ O)	≥ 0.10 %
		AOAC 2015.18
NUTRIENTS		
8	Calcium	0.01 – 0.10 %
		AOAC 965.09ICP
9	Iron	10 – 100 ppm
		AOAC 965.09ICP
10	Magnesium	0.0075 – 0.035 %
		AOAC 965.09ICP
11	Manganese	1.0 – 10 ppm
		AOAC 965.09ICP
12	Zinc	1.0 – 10 ppm
		AOAC 965.09ICP
13	Chloride	40 – 250 ppm
		9251
14	Sodium	0.01 – 0.1 %
		AOAC 965.09ICP
15	Sulfur	0.01 – 0.1%
		AOAC 2006.03
16	Boron	0.5-5.0 ppm
		AOAC 982.01ICP
METALS		
17	Arsenic	< 5 ppm
		3051A/6020B
18	Mercury	< 0.1 ppm
		7471A/P
19	Cadmium	< 1 ppm
		3051A/6020B
20	Cobalt	< 5 ppm
		3051A/6020B
21	Lead	< 5 ppm
		3051A/6020B
22	Nickel	< 5 ppm
		3051A/6020B
23	Molybdenum	< 1 ppm
		3051A/6020B
24	Selenium	< 1 ppm
		3051A/6020B
25	Copper	< 150 ppm
		3051A/6020B
26	Chromium (Total)	< 300 ppm
		3051A/6020B
27	Chromium (Hexavalent)	< 0.5 ppm
		3051A/6020B
MICROBIOLOGICAL		
28	Fecal Coliform	< 3.0 MPN/ml
		FDA-BAM
29	<i>Salmonella</i>	Negative/30g
		PCR-BAX-RT
30	<i>S.aureus</i>	< 10 cfu/ml
		FDA-BAM
31	<i>E.coli</i> O157:H7	Negative/30g
		PCR-BAX-RT
32	EHEC <i>E.coli</i>	Negative/30g
		PCR-BAX-RT
33	<i>Listeria spp.</i>	Negative/25g
		ELFA-AOAC
34	Yeast / Mold	< 500 cfu/ml
		FDA-BAM
		R2020-06-03

* Typical values based on testing multiple batches. Wet basis.