

PRODUCT DATA SHEET

bioAPT

BioAPT is the industry standard for granular and powdered microbial carriers. It is made from reed-sedge peat harvested from the abundant reserves of North America. Its humic substrate helps to minimize the shock of transition from the bag to the field while its high water retention capacity protects delicate microbes from desiccation. It is adaptable to a wide variety of formulations and displays excellent nutrient retention and shelf life. Once inoculated, the media is proven to sustain and multiply microbial growth for over a year.

PROPERTIES¹

Physical form	Granular	Powdered
Matrix	Reed-sedge peat	Reed-sedge peat
Bulk density	0.65 g/cm ³ or 40.6 lbs/ft ³	0.72 g/cm ³ or 45 lbs/ft ³
Particle size	10 X 50 mesh (>98 percent of media)	Minus 100 mesh (95% of media)
Uniformity coefficient (C _u)	1.75	6.2
Particle density	1.60 g/cm ³	ND
Moisture content as shipped	9 – 14 percent	9 – 14 percent
pH of media	6.2 – 7.0	6.2 – 7.0
Ash content	15 – 17 percent	15 – 17 percent

Powdered bioAPT has tested negative for the presence of salmonella and hydrogen-sulfide-producing enterobacteria. *Fusarium*, *Phytophthora*, *Pythium*, *Rhizoctonia* and *Sclerotinia* spp. were not recovered by standard cultural methods. Fecal coliform: <0.3 MPN/gm. Yeast: <10 cfu/gm. Mold: 100 cfu/gm.



SUGGESTED

CONDITIONS

FOR USE¹

Heat of wetting	bioAPT generates heat upon wetting. When moisture content is raised from the shipping moisture content of 9 – 14% to 35%, expect a temperature increase of 6.5 to 13 degrees C.
Rewetting media	$Y = x \left(\frac{1 - i}{1 - D} \right) - x$ <p>Where: Y = mass of water needed (gms or lbs) x = mass of sample (gms or lbs) i = initial moisture content, expressed as decimal D = target moisture content, expressed as decimal</p>
Flowability	Granular media remains flowable and not sticky up to 40% moisture

ELEMENTAL ANALYSIS OF RAW PEAT USED IN BIOAPT PRODUCTION

Element		Element	(mg/kg)	Element	(mg/kg)	Element	(mg/kg)
C	40 - 45 %	Be	<1	Li	<4	Na	<860
H	4 – 6 %	B	<21	Mg	<2300	Sr	<52
N	2 – 3 %	Cd	<1	Mn	<250	Tl	<10
O	35 - 45 %	Ca	<32,000	Hg	<60 µg/L	Sn	<10
	(mg/kg)	Cr	<9	Mo	<4	Ti	<10
Al	<2500	Co	<2	Ni	<7	V	<4
Sb	<4	Cu	<7	K	<500	Zn	<30
As	<4	Fe	<5800	Se	<2		
Ba	<80	Pb	<7	Ag	<2		

¹Test methods available upon request

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