



AGT-50™ ORGANIC ACID and TRACE MINERAL COMPLEX

Technical Data Sheet



Product Description

Developed by AgTonik, AGT-50 is a revolutionary plant food product extracted from a rare plant matter deposit consisting entirely of naturally occurring ingredients. Safe for the user and the environment, AGT-50 is designed to work with a grower's existing nutrient feed formula to substantially increase yield and performance. AGT-50 contains a wide range of organic acids not found in other plant growth enhancement products. AGT-50 is easy to use for hydroponic or outdoor applications.

AGT-50 Organic Acid and Trace Mineral Complex presents several favorable characteristics:

- Non-toxic
- Non-irritating to plants
- Fully biodegradable
- Pleasant odor
- Effective with hard or soft water
- Excellent stability
- 100% natural, water extracted ingredients
- Colloidal
- Rich in organic acid content
- Safe for animals and humans as a trace mineral supplement
- Active ingredients: Organic acids $\geq 10\%$, Minerals $\geq 1.0\%$
- High CEC values between (650 and 1200 cmol/kg)

Physical Description

Appearance: dark reddish brown liquid
Odor: chocolate, or, coffee

Guaranteed Analysis

Fulvic Acid minimum of 10%, humic acid 0.80%
Amino Acids 0.50%
Other organic acids 1.50%
Carbon 0.25%,
Iron 0.5%
Trace Mineral Complex 0.02%
Other ingredients: 86.4%

Physical Properties

Solubility in water: 100%
Volatility: None
Evaporation Rate (Water =1): less than 1
Boiling Point (Centigrade): 92
Specific Gravity (H₂O=1): 1.071 at 23 degrees Centigrade
pH (as supplied): 3.3 - 3.8 / Diluted: No effect at 1 mL / 4L H₂O
Viscosity: 25 cps at 25 degrees Centigrade
Flammability: 100% nonflammable.

Ingredient Profile

Independently tested by:
Advance Laboratories and Atlas Bioscience Laboratories

Organic Acids	% by weight	Minerals	ppm
Fulvic	≥ 10.0	Aluminum	802
Humic	0.80	Boron	8.97
Gallic	0.075	Calcium	1,800
Caffeic	0.027	Carbon	5,025
Shikimic	0.016	Chloride	97.2
Fumaric	0.016	Chromium	4.21
Cinnamic	0.014	Copper	9.25
Phthalic	0.012	Fluoride	5.83
Ferulic	0.009	Germanium	0.59
Benzoic	0.008	Gold	0.21
Protocatechuic	0.003	Iodine	1.25
Phenylacetic	0.002	Iron	5,320
Succinic	0.002	Lithium	2.38
Malic	0.002	Manganese	35.3
Acetic	0.002	Magnesium	560
Lactic	0.001	Molybdenum	2.20
Alanine	0.372	Phosphorus	109
Arginine	0.196	Potassium	76.6
Aspartic acid	0.073	Selenium	13.4
Cystine	0.013	Silicon	132.1
Glutamic acid	0.122	Sodium	670
Glycine	0.013	Sulfur	6023
Histidine	0.010	Vanadium	10.1
Isoleucine	0.044	Zinc	50.9
Leucine	0.080	HEAVY METALS	ppm
Lysine	0.071	Arsenic	< 1.5
Methionine	0.016	Cadmium	< 0.4
Phenylalanine	0.019	Lead	< 0.5
Proline	0.040	Mercury	<0.001
Serine	0.031		
Theronine	0.049	MICROBIAL PROFILE	
Tryptophan	0.012	Coliform	Negative
Tyrosine	0.017	E-Coli	Negative
Valine	0.035	Salmonella	Negative
		Yeast and Mold	<10 CFU/g
		Plate Count	<10 CFU/g

Application rates:

Hydroponics - 1mL/gallon - or - 1mL/4 Liters
Foliar Spray - 1mL/gallon - or - 1mL/4 Liters
Soil - 1 Liter/acre

Packaging:

Gallons: 1 - 30 - 55 - 275
Liters: 20 - 114 - 208 - 1,000

Availability:

Ask for AGT-50 at your local distributor or, contact us directly at: info@AgTonik.com or, 1-269-552-9436.

Product Number: AD10FA100