

Protan[®]

Bio-Stimulant Concentrate



WHAT IS PROTAN[®]?

Protan[®] is a bio-stimulant concentrate that reduces plant stress events, promotes nutrient cycling, root & plant growth and increases soil biological activity.

It is a ready to use high analysis liquid combination of Phyto-Hormones, Amino Acids and Organic Acids. This combination is derived by recycling by-products of agribusiness crop processing that are put through a biological extraction process creating a renewable, sustainable Biostimulant ready to use liquid concentrate.

It contains NO animal by-products, seaweed extract, fish hydrolysates, or fish emulsion.

This recycling and extraction technology of renewable plant base sources offers all the benefits of Kelps and Fish, but in higher concentrations of Phyto-Hormones and Amino Acids, with Organic Acids in ONE product, that offers long term sustainability comparative to the continued ocean extraction of kelps and fish.

BENEFITS

- Decreases plant physiological stress during stress periods.
- Complexes and hold nutrients in more useful forms
- Increases root growth & health
- Promotes greater nutrient uptake and utilisation by the plant
- Improved nutrient cycling reduces input costs through efficiency
- Highly concentrated liquid results in greater use efficiency for your farming system
- Renewable and sustainable
- A free flowing liquid that will keep booms and sprinklers free of blockages

TYPICAL ANALYSIS

Component	Symbol	Source	Percentage	Concentration
Carbon	C	as organic	11%	111 g/L
Fulvic Acid	FA	as fulvate	2.5%	25 g/L
Amino Acids		from plant base	8%	80 g/L
Phyto Hormones		from plant base		85,000 pmol/ml

APPLICATION GUIDE

Apply by boom spray, aerial, fertigation or overhead irrigation. DO NOT apply when conditions are extremely hot. Best applied in temperatures in the ranges of 5 - 25°C.

MIXING INSTRUCTIONS

1. Half fill tank to required volume with water.
2. Add required amount of Protan[®].
3. Add appropriate amount of wetting agent as per manufacturer's instructions.
4. Fill the remainder of tank with water and maintain agitation.

COMPATIBILITY:

Product may be compatible with herbicides and insecticides, please check with the manufacturer. Please be aware that physical compatibility does not guarantee product efficacy.

CONDITIONS OF SALE

These goods are manufactured and tested to specific standards and are sold in good faith, however, no guarantee is given as conditions and methods under which they are used are beyond the control of Advanced Nutrients Pty Ltd. Before using, user should determine the suitability of the product for his or her intended use and user assumes the risk and liability in connection therewith.

COMPOSITION		
Analysis:	w/v	weight/volume
Product pH:	pH:	3.0-4.0
Specific Gravity:	SG:	1.1

PACKAGE SIZES AND WEIGHTS		
VOLUME	NET WEIGHT	GROSS WEIGHT
1000 L	1100.0 kg	1160.0 kg
20 L	22.0 kg	23.0 kg





APPLICATION RATE

CROP	APPLICATION	RATE	WATER & COMMENTS	APPLICATION	RATE	WATER & COMMENTS
Tomato	Foliar	2-4 L/ha	Foliar spray 14 days after plantation. Repeat 3-4 times every 14 days. <i>Apply first foliar spray at 3-4 leaf stage for directly sown plants.</i>	Soil	4-6L/ha	Apply as a standalone monthly during the growing season.
Potato	Foliar	2-4 L/ha	Foliar spray at 3-4 leaf stage. Repeat after 2-3 weeks. <i>Do not apply after tuber initiation.</i>	Soil	4-6L/ha	Apply as a standalone monthly during the growing season.
Vines	Foliar	2-4 L/ha	Apply at EL 7, EL 17, EL 33, EL 34. (1:300 with water).	Soil	4-6L/ha	Apply at start of new growth (for root stimulation and early growth).
Table Grapes & Berry Crops	Foliar	2-4 L/ha	Apply regularly through the growing season at 10-12 day intervals. Do not apply as a foliar once bloom develops or directly over flowers on blueberries and table grapes.	Soil	4-6L/ha	Apply at start of new growth (for root stimulation and early growth).
Banana	Foliar	2-4 L/ha	Foliar spray at pre-flowering (5-6 mths pre-harvest) repeat 3 times at monthly intervals.	Soil	4-6L/ha	Apply as a standalone monthly during the growing season.
Cucurbits	Foliar	2-4 L/ha	14-21 day intervals. Spray at 3-4 leaf stage for directly seeded plants. Not recommended after flowering.	Soil	4-6L/ha	Apply as a standalone monthly during the growing season.
Cotton & Corn	Foliar	2-4 L/ha	Foliar spray at 3-4 leaf stage and prior to extreme heat.	Soil	4-6L/ha	Apply as a standalone monthly during the growing season.
Almonds	Foliar	2-4 L/ha	Spray at 50% bloom and repeat twice at 14 days intervals	Soil	4-6L/ha	Apply as a standalone monthly and or with soluble fertilisers
Avocados	Foliar	2-4 L/ha	1:200 Spray 4 weeks after planting in nursery bag. Mature trees Spray at pre-bloom, full bloom, fruit set (optional 14-21 days later)	Soil	4-6L/ha	Apply as standalone monthly and or with soluble fertilisers
Fruit Trees	Foliar	2-4 L/ha	Spray 3 to 5 times during early active growth at 21 day intervals. Deciduous: Spray at full bloom, fruit set & again 14 days later (14-21 days intervals). Evergreen: Spray at pre-bloom, full bloom, fruit set and, optional, 14-21 days later.	Soil	4-6L/ha	Apply as a standalone monthly during the growing season or apply with soluble or liquid fertilisers at 2% of the nutrient solution.
Vegetables	Foliar	2-4 L/ha	14 to 21 day intervals. Directly seeded plants receive foliar spray at 3 to 5-leaf stage. Repeat once or twice at 14 to 21 day intervals.	Stress Events - Foliar Application	2-4 L/ha	Recommended in addition to above typical applications, application for plant stress relief events such as heat or cold, peak growth periods or chemical damage.
Cereals Pasture	Foliar	2-4 L/ha	Apply at tillering to stem elongation. For pasture apply in Spring & Autumn. Intensive grazing apply after each grazing event.			
Nursery Plants & Turf	Foliar	4ml/10sqm	Apply on plants from seedling/transplanting. Apply at critical growth stages every 7-10 days. Apply on turf in spring and then after each cut.			

