

# Bio 18

Foliar Nutrition - Specialities

## Use

As a specialised foliar feed and plant growth stimulant for plants requiring extra iron, particularly in times of stress, or in a regular nutrient management programme to boost a wide range of nutrient levels

## Crops

Horticultural crops requiring additional iron (Fe)

## Pack Size

10 litres

## Function of Bio 18

Bio 18 provides the benefits of naturally occurring kelp and a balanced combination of macro and micro nutrients. The biostimulants and nutrients found in Bio 18 improve root growth and nutrient uptake to a greater level than when the two are applied separately. Bio 18 can be used to the best effect when the crop is under stress but specific deficiencies should be treated with the relevant foliar product.



Analysis	w/w	w/v
Biostimulant	18.4%	28%
Nitrogen (N)	12.0%	18.0%
Phosphate (P <sub>2</sub> O <sub>5</sub> )	12.0%	18.0%
Potassium (K <sub>2</sub> O)	12.0%	18.0%
Magnesium (MgO)	0.66%	1.0%
Iron (Fe EDTA)	2.0%	3.0%
Manganese (Mn EDTA)	480mg/kg	740mg/L
Copper (Cu EDTA)	480mg/kg	740mg/L
Zinc (Zn EDTA)	480mg/kg	740mg/L
Boron (B)	190mg/kg	290mg/L
Molybdenum (Mo)	8mg/kg	12mg/L

## ◆ Directions for Use

Apply 2-3 L/ha in 200-600 L/ha water. If the target is small, foliar uptake will be enhanced by the addition of NA13<sup>1</sup>.

Small areas: rate in ml/L of water as below, apply to the point of run off. Do not exceed 10L per 100m<sup>2</sup> of crop. Use the lower rate of 0.5 ml/L on young plants.

The spray tank should be filled with half the required water. After shaking the container measure the required amount of Bio 18 and add to the tank whilst maintaining constant agitation. Add remaining water to correct dilution and spray.

Crop	Timing	Rate L/ha	Rate ml/L water	Comments
Bulbs & Outdoor Flowers	From 2 true leaves	2		Use early to promote root growth, later applications will help to increase plant height and number of flowers
Hardy Nursery Stock <sup>2</sup>	From 2 true leaves	3	0.5-3	Use early to promote root growth, use lower rate on young plants and repeat after 14 days. Promotes root growth and reduces transplant shock.
Protected Ornamentals <sup>2</sup>	Early spring growth and autumn	2	0.5-2	Promotes root growth and improves canopy cover Use lower rate on young plants and repeat after 14 days
Protected Soft Fruit	4-8 true leaves	2		Use early to promote root growth, later applications will help to improve bud promotion.
Outdoor Soft Fruit		3		
Tree Fruit	Once new leaf is 80% open	3		Promotes growth, protects against stress, aids fruit swell and skin finish.

## ◆ Notes

Bio 18 can also be used as a foliar fertiliser on a wide range of crops to improve crop colour and increase vigour and growth. Visual effects on many crops can be seen within a few hours of application in some situations.

Do not apply in tank mix with pesticides when crop is showing deficiency symptoms, is under stress, or in adverse weather conditions.

For further information on compatibility, tank mixing and for physical compatibility with pesticides refer to the website [www.omex.co.uk](http://www.omex.co.uk)

<sup>1</sup> NA13 is an adjuvant designed to help with improved adhesion, deposition and penetration of the spray solution on the leaf surface. NA13 should be added at 0.1% of the spray volume, e.g. 100ml in 100 litres of water. Maintain agitation and apply immediately after mixing.

<sup>2</sup> Use **Bio 20** instead of **Bio 18** on plants that are sensitive to leaf scorch when under stress.

**For more information contact:** OMEX Horticulture, Estuary Road, King's Lynn, Norfolk, PE30 2HH

**Web** [www.omex.co.uk](http://www.omex.co.uk) • **Email** [horticulture@omex.com](mailto:horticulture@omex.com) • **Tel** 01553 760011