ABIOTIC STRESS MITIGATION RANGE

ABIOTIX + BET

Two complementary solutions to protect the plant and support its performance

Physiological nutrition + preventive osmoprotection

SALINITY · HEAT · DROUGHT · COLD



ABIOTIX

Prevent stress.
Maintain key functions.
Support quality and yield.

BET

Strengthen osmotic balance.
Protect the crop against abiotic stresses.

Aspe

One range, two complementary antistress solutions

A simple way to combine osmotic protection with nutritional / physiological support.

BET — OSMOTIC PROTECTION



80 % betaine
+ 6 % amino acids
(including 6% L-proline)

Helps to maintain osmotic balance
in plant cells and tissues.

Preventive and protective action
against environmental stresses.

Covers multiple stresses:
cold, heat, drought and salinity.

Anti-cracking effect
and support for fruit precocity and colour uniformity.

ABIOTIX — NUTRITION + PHYSIOLOGICAL PROTECTION



Fe + Mn + Zn
gluconates + 5% SiO_2
+ 3% betaine

Improves nutrient absorption
and translocation.

Supports photosynthesis
and the plant's physiology.

Enhances tolerance to salinity,
drought and heat.

Aims for higher crop quality
and greater exportable yield.

PRODUCT 01

ABIOTIX

Advanced micronutrition and physiological protection against abiotic stresses.



FOLIAR NUTRITION

COMPOSITION % w/v

Iron (Fe) gluconate	2.00
Manganese (Mn) gluconate	2.00
Zinc (Zn) gluconate	2.00
Silicon (SiO_2)	5.00
Betaine (glycine betaine)	3.00

KEY CHARACTERISTICS

- pH (1%): 5.5 – 6.5
- Density: 1.15 – 1.20
- Formulation designed for foliar application
- Synergistic combination of micronutrients + silicon + betaine

MODE OF ACTION IN 3 STEPS

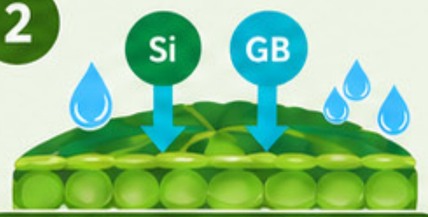
1



NUTRITIONAL SUPPLY

Gluconate chelation for high foliar absorption and good translocation.

2



PHYSIOLOGICAL PROTECTION

Silicon + glycine betaine: strengthens cell structure and improves water balance.

3



CROP PERFORMANCE

Higher chlorophyll (SPAD) and greater yield and exportable quality.

Aspe

ABIOTIX

Doses and application timing

Foliar applications. Repeat every 15 to 21 days according to the programme and ensure good coverage.

Crop type	Dose (L/ha)	Water volume (L/ha)	Key application timing
Horticultural crops	1.0 – 1.5 L/ha	300 – 600 L/ha	Vegetative growth, pre-flowering, fruit set and fruit development.
Fruit trees (citrus, avocado, stone fruits, vine, etc.)	1.0 – 1.5 L/ha	400 – 800 L/ha	Early spring growth, pre-flowering, fruit set and fruit development.
Small fruits (blueberry, strawberry, etc.)	1.0 – 1.5 L/ha	300 – 600 L/ha	Vegetative growth and fruit development.
Major field crops (maize, rice, cotton, wheat, etc.)	0.5 – 1.0 L/ha	200 – 400 L/ha	From 3–4 leaves, during active growth and before periods of stress.

BEST PRACTICES

Compatible with most crop protection products.
Carry out a compatibility test in a jar before mixing.



PACKAGING OPTIONS



1 L | 5 L | 10 L | 20 L | 1000 L

PRODUICT 02

BET

Natural osmoprotectant designed as an anti-stress protector for plants.



COMPOSITION

Betaine (Glybet)	80.0 % w/w
Free amino acids	6.0 %
L-proline	6.0 %

KEY FUNCTIONS

Fast translocation
to fruits, roots and young leaves.

Preventive and protective action
against environmental stresses.

Recommended
during active vegetative growth and prior to reproduction.

KEY BENEFITS

Osmotic balance
Helps maintain osmotic balance in plant cells and tissues.

Anti-cracking
Reduces pre-harvest fruit cracking.

Activity
The data sheet indicates an activity of three weeks.

Improved visual quality
Enhances precocity and uniformity of fruit colouring.

Uses and application guidelines

Doses and timing vary greatly depending on the crop and the objective; the table below summarises the main uses from the data sheet.

CROP	DOSE	APPLICATION TIMING	APPLICATION METHOD
Cotton	**3 kg/ha** (200–500 L of water)	7 to 15 days after the start of flowering.	Uniform foliar spraying.
Fruit trees: citrus, apple, pear	**5–7 kg/ha**	Early flowering to full flowering; 4 weeks before harvest depending on the objective.	10–20 L of water / tree.
Vine	**1st application: 4 kg/ha 2nd application: 2–4 kg/ha**	Approximately 4 weeks before harvest, then 2 weeks before harvest.	Water: 400–1000 L/ha.
Tomato / cucumber / sweet pepper (greenhouse)	**2–3 kg/ha**	At most 24 hours before stress; repeat every 3 weeks.	Water: 400–1000 L/ha; drip application possible near the root zone.
Vegetables / seedlings	**6 g/L**	At most 24 hours before stress; repeat if necessary.	Uniform spraying.
Olive tree	**3–5 kg/ha**	Beginning of flowering, then 4 weeks before harvest.	10–20 L of water / tree.
Potato	**2 kg/ha**	Beginning of tuberisation; or at least 24 hours before low temperatures.	200–400 L/ha.
Strawberries, raspberries and other small fruits	**2–4 kg/ha**	24 hours before stress; or at the flowering stage for quality / shelf life.	400–1000 L/ha.



COMPATIBILITY AND CONCENTRATION

Compatible with most plant protection products and foliar fertilisers, except formulations containing copper. Maximum concentration of the spray solution: **30 g/L.**