



# Quantis®

syngenta®

**QUANTIS® is a liquid plant biostimulant based on short chained organic acids and sugars, together with amino acids and peptides and potassium. QUANTIS® supports natural processes in the plant, enhancing plant performance in general and especially under abiotic stress conditions.**

**In case of toxic or transport emergency ring  
+44 (0) 1484 538444 any time**

PROTECT FROM FROST  
SHAKE WELL BEFORE USE  
KEEP LOCKED AWAY AND OUT OF REACH OF CHILDREN  
READ THE LABEL BEFORE USE  
STORE IN ORIGINAL CONTAINER TIGHTLY CLOSED.  
STORE IN A COOL, DRY AND APPROPRIATELY VENTILATED PLACE.  
KEEP AWAY FROM DIRECT SUNLIGHT, FROST OR EXTREME TEMPERATURES (< 4°C AND > 30°C).

Marketing company:  
Syngenta UK Limited  
Jealott's Hill International Research Centre, Bracknell,  
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Batch number:

Date of manufacture:

#### SAFETY PRECAUTIONS

##### (a) Operator protection

Do not breath vapour or spray mist.  
Do not get in eyes, on skin, or on clothing.  
Do not eat, drink or smoke when using this product.  
Wash hands and face before eating, drinking or smoking.  
If you feel unwell stop work immediately, apply first aid measures and call a POISON CENTER or doctor.  
Wash body thoroughly and change clothing after working.  
Wash contaminated clothing and protective equipment before re-use.  
If medical advice is needed, have product container or label at hand.

If this product is tank mixed and applied together with plant protection products, operators need to wear the Personal Protective Equipment specified on the label of the plant protection product.

##### (b) Environmental protection

Do not contaminate water with the product or its container.  
Do not clean application equipment near surface water.  
Avoid contamination via drains from farmyards and roads.

##### (c) Recommended storage conditions and disposal

Store in original container tightly closed.  
Store in a cool, dry and appropriately ventilated place.  
Keep away from direct sunlight, frost or extreme temperatures (< 4°C and > 30°C).

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times.  
Add washings to sprayer at time of filling and dispose of safely. Do not re-use empty containers.

Product names marked ® or ™, the ALLIANCE FRAME, the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a SyngentaGroup Company

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## NUTRIENT COMPOSITION

Value giving nutrients	Minimum guaranteed content % w/w	Average value % w/w	Maximum value in specification % w/w
Organic matter calculated	13.1 (26.2 on dry matter)	14.9	18.4 (33.4 on dry matter)
C organic	12.75 (23.2 on dry matter)	16.0	19.25 (38.5 on dry matter)
K <sub>2</sub> O	8.05	8.4	12.3
Calcium	0.75	0.9	1.7

## INSTRUCTIONS FOR USE

### GENERAL INFORMATION

QUANTIS® is a high concentrated biostimulant consisting of easily absorbable short chained organic acids and sugars, together with amino acids and peptides (short chains of amino acids), and potassium. These act as osmoprotectants to reduce both osmotic and oxidative stresses. Amino acids and peptides are used by the plant for the creation of proteins which are essential components for plant growth and development. All components of QUANTIS are of natural origin.

### CROP SPECIFIC INFORMATION

The application of QUANTIS improves quality and tolerance to heat and physiological drought stress and other general abiotic stresses. The yield increase response depends on the crop genetics.

#### Potatoes:

QUANTIS is generally advised for use on main crop potatoes where the risk of heat stress is more likely to occur than with early or short-term crops. The benefits of QUANTIS are most pronounced where the crop suffers heat stress which can hinder the rate of tuber bulking. Treated crops have been shown to recover better and can deliver higher yields and larger mean tuber size.

For best results apply from tuber initiation ahead of crop stress and maintain applications at the key stages of crop development.

Each application is 2.0 litres of QUANTIS in 200 litres of water.

QUANTIS helps to maintain the osmotic potential of plant cells and can reduce oxidative stress caused by high temperatures. Applications from the time of bulking have been shown to be effective at reducing the effects of stress and enabling potato bulking to continue nearer the optimum rate.

QUANTIS is usually compatible with late blight fungicides. Check with Syngenta technical support for the latest details on physical compatibility. Multi-way mixtures of QUANTIS with fungicides and other products is not supported unless otherwise stated.

Crop	Recommended individual dose (ltrs/ha)	Water volume	Recommended no. of applications	Latest time of application
Potato	2.0	100-300 L/ha	3	Beginning of leaf yellowing (BBCH 91)

#### Sugar Beet & Fodder Beet:

The benefits of QUANTIS are most pronounced where the crop suffers heat and physiological drought stress and other general abiotic stresses, which can reduce photosynthetic activity and movement of assimilates to the roots. Treated crops can recover better and deliver higher yields.

For best results apply ahead of crop stress and maintain applications as stress events occur.

Each application is 2.0 litres of QUANTIS in 200 litres of water.

QUANTIS helps to maintain the osmotic potential of plant cells and can reduce both osmotic and oxidative stress. Applications from the time of crop cover occurring (BBCH GS31), when tap root begins to expand, have been shown to be effective at reducing the effects of stress and enabling sugars to be transported to roots.

Check with Syngenta technical support for the latest details on physical compatibility. Multi-way mixtures of QUANTIS with fungicides and other products is not supported unless otherwise stated.

Crop	Recommended individual dose (ltrs/ha)	Water volume	Recommended no. of applications	Latest time of application
Sugar Beet & Fodder Beet	2.0	100-300 L/ha	2	BBCH 49

## Cereals:

The benefits of QUANTIS are most pronounced where the crop suffers heat and physiological drought stress and other general abiotic stresses which can reduce photosynthetic activity and movement of assimilates to the ear. Treated crops have been shown to deliver higher yields.

For best results apply once the flag leaf has fully emerged and again prior to flowering - targeting abiotic stress.

Each application is 2.0 litres of QUANTIS in 200 litres of water.

Check with Syngenta technical support for the latest details on physical compatibility. Multi-way mixtures of QUANTIS with fungicides and other products is not supported unless otherwise stated.

Crop	Recommended individual dose (ltrs/ha)	Water volume	Recommended no. of applications	Latest time of application
Wheat & Barley	2.0	100-300 L/ha	2	BBCH 69

#### Maize:

The benefits of QUANTIS are most pronounced where the crop suffers heat and physiological drought stress and other general abiotic stresses which can deteriorate kernel quality and setting. Treated crops have been shown to deliver higher yields.

For best results apply from the start of pollen development (V8) and sustain protection through until tasselling - targeting abiotic stress

Each application is 2.0 litres of QUANTIS in 200 litres of water.

Check with Syngenta technical support for the latest details on physical compatibility. Multi-way mixtures of QUANTIS with fungicides and other products is not supported unless otherwise stated.

Crop	Recommended individual dose (ltrs/ha)	Water volume	Recommended no. of applications	Latest time of application
Maize	2.0	100-300 L/ha	2	V7

## MIXING AND APPLICATION

Make sure the sprayer is clean and set to give an even application at the correct volume and an even deposit. Half fill the spray tank with clean water and commence agitation. Add the required quantity of QUANTIS to the spray tank. Complete filling to the required volume and continue to agitate throughout the spraying operation. Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight). Make up only the amount of spray required for immediate use. Thoroughly wash all spray equipment with water immediately after use.

**Shelf-life:** The product is stable three years from the date of manufacture.

QUANTIS is approved for use in organic systems (Cert 180ct22 UKE1813)

