



**PRODUCT INFO  
& DATASHEET**

## SICOMER BS 35AL

*A fully water soluble liquid containing 35% (w/v) dry matter per litre  
- Origin: E.U. -*

### **1/ DESCRIPTION**

SICOMER BS 35AL is a liquid natural plant growth stimulant obtained by the alkaline hydrolysis of *ascophyllum nodosum* harvested from off the west coast of the British Isles. Containing the following natural growth promoters: **cytokinins, auxins, gibberellins and betaines**. Preservatives are included to prevent fermentation and decomposition.

### **2/ PHYSICAL CHARACTERISTICS**

Appearance:	dark brown / black liquid
Specific gravity:	1.172 - 1.185
Concentration:	350 - 375 gr dry matter per litre (w/v)
pH:	8 - 10
E.C.:	3.94 m.s. (typically)
Crude protein:	1.925 - 2.200%
Solubility:	totally soluble in water

### **3/ TYPICAL CHEMICAL ANALYSIS**

Organic matter:	17 - 20%	Chlorine (Cl):	0.75 - 1.10%
Inorganic matter:	14 - 15.5%	Iodine (I):	208 - 220 ppm
Nitrogen (N):	0.35 - 0.60%	Iron (Fe):	55 - 82 ppm
Phosphorus (P):	0.01 - 0.02%	Copper (Cu):	10 - 14 ppm
Potassium (K <sub>2</sub> O):	7 - 9%	Zinc (Zn):	3.5 - 6 ppm
Sulphur (S):	0.45 - 0.80%	Boron (B):	35 - 45 ppm
Calcium (Ca):	0.45 - 0.6%	Manganese (Mn):	3 - 6 ppm
Magnesium (MgO):	0.1 - 0.20%		

### **Carbohydrates**

Alginic Acid:	6 - 8.75%	Mannitol:	0.7 - 2.1%
Laminarin:	0.53 - 1.4%	Other sugars:	1.4 - 3.5%

### **Hormones**

Cytokinins:	0.007%	Auxins:	0.0035%
Gibberellins:	0.01%	Betaines:	0.0035%

### **Amino Acids** (gr Amino Acid Nitrogen per 100 gr crude protein)

Alanine:	1.93 - 2.275	Methionine:	0.14 - 0.315
Argenine:	2.52 - 3.33	Phenylalanine:	0.56 - 0.875
Aspartic Acid:	1.82 - 2.45	Proline:	0.735 - 1.05
Cystine:	< 1	Serine:	0.95 - 1.12
Glycine:	1.23 - 1.75	Threonine:	0.875 - 1.05
Glutamic Acid:	2.625 - 3.15	Tryptophan:	0.035 - 0.07
Histidine:	0.175 - 0.525	Tyrosine:	0.245 - 0.42
Isoleucine:	0.70 - 1.05	Valine:	1.225 - 1.575
Lysine:	1.225 - 1.75		

### **Vitamins**

Biotin:	0.035 - 0.105 ppm	Thiamin:	0.35 - 1.4 ppm
Carotene:	7 - 14 ppm	Tocopherols:	35 - 87.5 ppm
Folic Acid:	0.035 - 0.14 ppm	Vitamin C:	175 - 700 ppm
Folinic Acid:	0.035 - 0.105 ppm	Vitamin B12:	< 1 ppm
Niacin:	2.8 - 8.75 ppm	Vitamin K:	1.4 - 3.15 ppm
Riboflavin:	1.4 - 2.8 ppm		

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

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**4/ APPLICATION GUIDE**

SICOMER BS 35AL can be used on the following crops:

\* **Fruit trees, soft fruit:** Avocado, citrus, apples and pears, stone fruit (peaches, etc.), bananas, berries (strawberries, etc.), kiwi, melons (watermelons, cantaloupe, etc.)

\* **Vegetables:** Asparagus, aubergine (egg plant), baby corn, beans (French, navy, lima, etc.), broccoli, Brussels sprouts, cabbage and other brassicas, carrots, celery, cucumber and other cucurbits, garlic, lettuce, okra, onions, peas, peppers, potatoes, sweet corn, tomatoes.

\* **Field crops:** Alfalfa, barley, beans, cotton, maize, oats, oil seed rape, peas, peanuts, rice, soybeans, sugar beets, sun flowers and wheat.

Please refer to our local distributor for information on other crops.

**5/ APPLICATION RATES**

The following are only suggested rates for application to the crops described below. In practice growers will become familiar with this product and may want to change the rates to suit their own husbandry techniques. Always spray to run-off in sufficient water to ensure good coverage. 200 - 400 litres per hectare for most crops and 2,000 - 4,000 litres of water per hectare for top fruit. Spray nozzle tips vary and as water is only the vehicle selected to enable an even coverage, local practice will vary considerably. Always enquire that your spray nozzle tips are clean and tested for accuracy regularly.

\* **Fruit trees and soft fruit: 2 - 2.5 litres per hectare per application and some 4 - 5 applications can be made.**

FRUIT	1st appl.	2nd appl.	3rd appl.	4th appl.
Apples, pears	pink bud	full bloom	early fruiting	21 days later
Citrus, avocado	3/4 days pre-bloom	petal fall	after 14 days	6 weeks before harvest
Grapes, kiwi	10 - 25 cm of new growth	early bloom	berry set	14 - 21 days later
Stone fruit	pink bud	full bloom	early fruiting	21 days later
Strawberries	at transplant** or early spring growth	at first sign of bloom	7 - 10 days later	every 21 days to mid harvest

(\*\*) Transplant dip: mix 8 - 10 mls with 10 litres water and dip roots.

\* **Bananas, oil palm, rubber: 2.5 - 3 litres per hectare**

1st year	transplant dip, 8 ml per 10 litre water	1 month after planting 2.5 - 3 ltrs/ha	2 month after planting 2.5 - 3 ltrs/ha	3 & 4 months after planting 2.5 - 3 ltrs/ha
2nd and subsequent years	mid-late February 2.5 ltrs/ha	early-mid April 2.5 ltrs/ha	early October 2.5 ltrs/ha	

\* **Vegetables: 2 - 2.5 litres per hectare**

Crops	1st appl.	2nd appl.	3rd appl.	4th appl.
General rule	2 - 2.5 l/ha when there is enough foliage or spraying	2 - 2.5 l/ha at first signs of flowering	2 - 2.5 l/ha 14 - 21 days later	2 - 2.5 l/ha 14 -21 days later
Peas, beans	at 4 - 5 leaf stage	at 1st signs of flowering	at early pod initiation	
Baby corn, sweet corn	at 4 - 6 leaf stage	just prior to tasseling		
Cucumbers, squash, melons, egg plant, peppers	transplant dip of 8 - 10 mls per 10 litre water	at 4 - 5 true leaf stage	just prior to bloom	10 - 14 days later, and at 14 days intervals
Potatoes, sweet potatoes	a solution of 10 mls per 10 ltr as tuber dip at planting	at 3 - 5 leaf stage	at tubers 15 - 20 mm in diameter	at early bloom
Tomatoes	at 15 - 20 cm growth	just prior to 1st bloom	repeat at 14 day intervals	

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**\* Flowers, ornamentals and grass: 2 litres per hectare**

	<b>1st appl.</b>	<b>2nd appl.</b>	<b>3rd appl.</b>	<b>4th appl.</b>
Carnations, Chrysanthemums	transplant root dip of 10 mls per 10 lt water	10 days after transplanting	repeat 10-14 days later	repeat if necessary up to blooming
Roses	transplant root dip of 10 mls per 10 lt water	10-14 days after transplanting	repeat 10-14 days later	repeat as soon as possible after 1 <sup>st</sup> cutting
Ornamentals	transplant root dip of 10 mls per 10 lt water	10-14 days after transplanting	repeat 2-3 days week intervals	
Turf grass	apply at 1 <sup>st</sup> sign of growth in spring	repeat at 21-28 days intervals	apply in autumn to improve frost hardness	

**\* Field crops: 1.5 – 2.5 litres per hectare**

Alfalfa	2 ltr/ha at 4-5 leaf stage	2 ltr/ha after 1 <sup>st</sup> cut	2 ltr/ha after each cut
Cereals	1.5-2 ltr/ha at growth stage 21 in autumn	1-2 ltr/ha at growth stage 30	optional: 1-2 ltr/ha at growth stage 51-71
Cotton	2.5 ltr/ha at early squaring	2.5 ltr/ha at 1 <sup>st</sup> signs of flowering	2.5 ltr/ha 14 days later
Maize	2.5 ltr/ha at 4-5 leaf stage	2-2.5 ltr/ha just prior to tasselling	
Oilseed rape	2 ltr/ha at 5 leaf stage (growth stage 1.5)	2.5 ltr/ha at green bud stage (growth stage 3.1)	
Peanuts	2 ltr/ha at 4-6 leaf stage	2 ltr/ha at pegging	
Rice	2 ltr/ha at 4-6 leaf stage	2 ltr/ha at flag leaf emergence	
Soybeans	2-2.5 ltr/ha at 4-5 leaf stage	2-2.5 ltr/ha at 1 <sup>st</sup> signs of flowering	
Suger beets	2-2.5 ltr/ha at 4-6 leaf stage	2-2.5 ltr/ha 14-21 days later	

**\* Field transplants or addition to starter fertiliser**

Field transplants should be dipped in a solution containing SICOMER BS 35AL plus a high phosphate fertiliser such as 10-52-10 (see label instructions). Use SICOMER BS 35AL at a rate of 1 litre per 100 litres water. For addition to starter fertilisers, use at an inclusion rate of 1 litres per 100 litres.

**6/ COMPATIBILITY**

SICOMER BS 35AL should be compatible with all organic pesticides, although if an uncertainty exists, carry out a jar compatibility test. Always add SICOMER BS 35AL to half filled spray tank, keep agitated and add other spray tank ingredients. If a pH problem exists with acidic mixes, then use of a recognised buffering agent is recommended.

**7/ STORAGE**

Contains PCMC preservative to prevent fermentation and decomposition and should be kept out of direct sunlight and away from heat and frost. Be careful of spillage as may cause a hazard. Keep out of the reach of children.

**8/ NOTICE**

Seaweed extract is produced from Ascophyllum Nodosum and all analysis is given as typical analysis due to the inherent variability in the raw material.