LIQUID KELP™

For crop and soil health

About

Liquid Kelp™ is a **plant growth stimulant and soil restorer** made from kelp farmed sustainably on the West Coast of Scotland. Liquid Kelp™ is made using low-energy fermentation processing. No chemicals, colourants or preservatives are used to make Liquid Kelp™, and it is approved for use in organic farming systems by the Soil Assocation.

Use

Liquid Kelp™ can be used as a general growth stimulant and mild fertiliser on all crops. It is particularly effective in **aiding grassland recovery**, **improving depleted soil** and **bringing on healthy winter and cover crops**.

Product Summary

Liquid Kelp™ contains a broad range of naturally occurring macro- and micronutrients, as well as proteins, carbohydrates and growth hormones, the core benefits of which include:

1. PLANT HEALTH BOOST

Over twenty nutrients and trace elements, rapidly absorbed by plants following foliar application, which are vital for strengthening root systems and improving yield. Compared to synthetic fertiliser products, nutrients are in a more readily-available form for plant absorption, reducing run-off.

2. IMPROVED SOIL STRUCTURE

Alginic acid salts in Liquid Kelp™ combine with metal molecules in the soil to form heavier molecules that attach to soil particles, binding them together to improve the soil structure. This reduces leaching and results in better water and air movement through the soil.

3. MITIGATION OF ABIOTIC STRESS

Growth hormones in Liquid Kelp™ hasten pasture recovery in times of drought and extreme temperature and speed up growth in root systems and foliage by improving water uptake. Liquid Kelp™ contains bioactive carbohydrates to aid plant resistance to pestilence and disease and provide a protective layer of micro-colloid film to leaves following foliar application.

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TECHNICAL INFORMATION

Nutrient Composition

pH **7.2-7.36**	CONDUCTIVITY **1400-1550** uS/cm	OVEN DRIED SOLIDS **0.77%**
AMMONIUM NITROGEN **160-200** mg/L	KJELDAHL NITROGEN **0.03-0.06** mg/L	POTASSIUM **1800-1900** mg/L
PHOSPHOROUS **45-61**mg/L	IRON **5.2-6.5** mg/L	BORON **2.8-3** mg/L
ZINC **1-2.2** mg/L	CALCIUM **800-880** mg/L	MAGNESIUM **220** mg/L
CHLORIDE 1090-**1150** mg/L	SILICON **12.5-14.5** mg/L	NICKEL **0.18-0.22** mg/L
COPPER **0.02** mg/L	SULPHUR **120** mg/L	MANGANESE **1-2** mg/L
In addition to the nutrients listed above, Liquid Kelp™ contains proteins, carbohydrates, tannins, betaines, auxins, cytokines, vitamins and alginic acid. Other valuable trace elements include iodine and molybdenum.		

Amino Acids

Alanine 0.015g/100 g	Leucine 0.015g/100 g	Hydroxyproline 0.2g/100 g
Arginine 0.01g/100 g	Lysine 0.014g/100 g	Isoleucine 0.035g/100 g
Aspartic Acid 0.017g/100 g	Ornithine 0.05g/100 g	Theonine 0.006g/100 g
Glutamic Acid 0.021g/100 g	Phenylalanne 0.031g/100 g	Valine 0.016g/100 g
Glycine 0.019g/100 g	Proline 0.02g/100 g	Serine 0.016g/100 g
Histidine 0.02g/100 g		

Directions for Use

The table below provides a general guide for Liquid Kelp application for agriculture. For application on most crops, 10-15 litres of AML Liquid Kelp™ should be applied per hectare, diluted with water at a ratio of 1:10.

Crop Type	Application Rate (L/ha)	Timing and Frequency
Cereals	10	Single application, GS 13-15
Vegetables	12	1st application in early leafing, 2nd application 2-4 weeks later
Potatoes	15	Single application at planting
Grassland	12	Apply in early spring and mid-summer

Agitate tank to ensure even distribution of Liquid Kelp™. Can be added to a mixed spray solution. Check pH after mixing and adjust if required. For application guidance on specific crops and soil types, please contact info@atlanticmariculture.co.uk.

Distribution

Liquid Kelp™ is distributed throughout the UK. Liquid Kelp™ is available in 5L, 10L, 20L, 1000L (IBC) and custom volumes upon request.

Handling and Storage

Store in original container in a cool place away from direct sunlight. Liquid Kelp™ has a strong natural odour produced by the kelp as it breaks down. Gases are a normal by-product of this process and may cause the bottle to expand – to release these simply loosen the cap. Keep out of reach of children and pets. Wear gloves when handling and wash hands after use. Do not ingest. Fertiliser appearance may vary slightly between batches. Use within one year of opening for optimum results.