bloom YELLOW BOTTLES

ROOTS

Kelp root-zone feed



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**1 ml/L for the first two weeks, then 0.5 ml/L**
WINDOW	**Clone through harvest**

WHAT IT IS

ROOTS is a southern bull kelp (Durvillaea potatorum) extract with humic acid and vitamin B1. It is fed from clone right through veg and flower, alongside whatever base nutrient you already run.

HOW IT WORKS

Durvillaea is a cold-water brown kelp harvested from the Southern Ocean off southern Australia, carrying alginates and trace minerals. Humic acid may increase micronutrient uptake, and thiamine (B1) rounds out the blend. It is a low-dose additive that goes on top of a full base feed, not instead of it.

DIRECTIONS

Rate	1 ml/L for the first two weeks, then 0.5 ml/L
Timing	From clone, right through veg and flower
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

GUARANTEED ANALYSIS

Total nitrogen (N)	**0.0083%**	Soluble potash (K_2O)	**0.43%**
Available phosphate (P_2O_5)	**0%**		

As printed on the US product label.

DERIVED FROM

Durvillaea potatorum (seaplant extract)
Also contains: 0.075% humic acid (from leonardite); 0.054% thiamine hydrochloride (vitamin B1)

THE SIGNATURE SIX

ROOTS · PRE · ULTRA · PHAT · OOZE · FINAL

PROGRAM WINDOW

Clone through harvest

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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PRE

Mid-veg kelp feed



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**1 ml/L**
WINDOW	**Veg weeks 2–3**

WHAT IT IS

PRE is a two-kelp extract, Ascophyllum nodosum and Durvillaea potatorum, with humic acid and vitamin B1. It runs for two weeks in the middle of veg, alongside your base nutrient.

HOW IT WORKS

Ascophyllum is a cold-water North Atlantic kelp and Durvillaea comes from the Southern Ocean off southern Australia. Together they bring alginates, mannitol and trace minerals while the plant builds out in veg. Humic acid may increase micronutrient uptake.

DIRECTIONS

Rate	1 ml/L
Timing	Veg weeks 2 and 3
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

GUARANTEED ANALYSIS

Total nitrogen (N)	**0.0066%**	Soluble potash (K_2O)	**0.4198%**
Available phosphate (P_2O_5)	**0%**		

As printed on the US product label.

DERIVED FROM

Ascophyllum nodosum and Durvillaea potatorum (seaplant extracts)
Also contains: 0.075% humic acid (from leonardite); 0.054% thiamine hydrochloride (vitamin B1)

THE SIGNATURE SIX

ROOTS · **PRE** · ULTRA · PHAT · OOZE · FINAL

PROGRAM WINDOW

Veg weeks 2–3

Clone	V1	**V2**	**V3**	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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ULTRA

Early-flower kelp & alfalfa feed



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**1 ml/L**
WINDOW	**Flower weeks 1–2**

WHAT IT IS

ULTRA is Ascophyllum kelp and alfalfa extract with humic acid and vitamin B1. It runs for the first two weeks after the switch to 12/12.

HOW IT WORKS

The flip is a big change for the plant. ULTRA sits on top of the base feed through that transition, supplying cold-water kelp, alfalfa extract and trace minerals to support plant health and nutrient uptake while the plant moves into flower. Humic acid may increase micronutrient uptake.

DIRECTIONS

Rate	1 ml/L
Timing	Flower weeks 1 and 2, from the switch to 12/12
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

GUARANTEED ANALYSIS

Total nitrogen (N)	**0.0331%**	Soluble potash (K_2O)	**0.2289%**
Available phosphate (P_2O_5)	**0%**		

As printed on the US product label.

DERIVED FROM

Ascophyllum nodosum (seaplant extract), Medicago sativa (alfalfa extract)
Also contains: 0.075% humic acid (from leonardite); 0.054% thiamine hydrochloride (vitamin B1)

THE SIGNATURE SIX

ROOTS · PRE · **ULTRA** · PHAT · OOZE · FINAL

PROGRAM WINDOW

Flower weeks 1–2

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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PHAT

Mid-flower seaweed feed



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**2.5 ml/L or less**
WINDOW	**Flower weeks 3–4**
PAIRS WITH	**OOZE in weeks 5–8**

WHAT IT IS

PHAT is Laminaria and Lessonia seaweed extracts with boron, molybdenum, humic acid and vitamin B1. It runs in weeks 3 and 4 of flower, on top of your base feed.

HOW IT WORKS

Two brown kelps, Laminaria from the North Pacific and Lessonia from off the coast of Chile, bring alginates and trace minerals through peak flower. Boron and molybdenum are two trace elements plants need in flower. There is no need to cut back your base nutrient.

DIRECTIONS

Rate	2.5 ml/L or less
Timing	Flower weeks 3 and 4
Frequency	Weekly, at each reservoir change
Mixing	No need to reduce your base nutrient. Never go above the feed-chart rate

GUARANTEED ANALYSIS

Total nitrogen (N)	**0.0051%**	Soluble potash (K_2O)	**0.0143%**
Available phosphate (P_2O_5)	**0.5258%**		

As printed on the US product label.

DERIVED FROM

Laminaria japonica and Lessonia nigrescens (seaplant extracts), boric acid, sodium molybdate
Also contains: 0.075% humic acid (from leonardite); 0.054% thiamine hydrochloride (vitamin B1)

THE SIGNATURE SIX

ROOTS · PRE · ULTRA · **PHAT** · OOZE · FINAL

PROGRAM WINDOW

Flower weeks 3–4

Clone	V1	V2	V3	V4	F1	F2	**F3**	**F4**	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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OOZE

Late-flower molasses & seaweed feed



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**2.5 ml/L**
WINDOW	**Flower weeks 5–8**
PAIRS WITH	**PHAT in weeks 3–4**

WHAT IT IS

OOZE is molasses with Ahnfeltia and Laminaria seaweed extracts, boron, molybdenum, humic acid and vitamin B1. It takes over from PHAT and runs through the back half of flower.

HOW IT WORKS

Molasses supplies natural sugars. Ahnfeltia, a red seaweed, and Laminaria, a brown kelp, bring polysaccharides and trace minerals, and boron and molybdenum are trace elements plants need in flower. It runs alongside the base feed to support plant health and nutrient uptake late in flower.

DIRECTIONS

Rate	2.5 ml/L
Timing	Flower weeks 5 to 8 (standard schedule)
Frequency	Weekly, at each reservoir change
Mixing	No need to reduce your base nutrient

GUARANTEED ANALYSIS

Total nitrogen (N)	**0.306%**	Soluble potash (K_2O)	**2.4573%**
Available phosphate (P_2O_5)	**2.337%**		

As printed on the US product label.

DERIVED FROM

Molasses, Ahnfeltia plicata and Laminaria japonica (seaplant extracts), boric acid, sodium molybdate
Also contains: 0.075% humic acid (from leonardite); 0.054% thiamine hydrochloride (vitamin B1)

THE SIGNATURE SIX

ROOTS · PRE · ULTRA · PHAT · **OOZE** · FINAL

PROGRAM WINDOW

Flower weeks 5–8

Clone	V1	V2	V3	V4	F1	F2	F3	F4	**F5**	**F6**	**F7**	**F8**	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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FINAL

Last-two-weeks kelp & alfalfa feed



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**1 ml/L**
WINDOW	**Last two weeks of flower**

WHAT IT IS

FINAL is Ascophyllum and Durvillaea kelps with alfalfa extract, humic acid and vitamin B1, made for the last two weeks of flower. It was one of the first products in the range, built 26 years ago.

HOW IT WORKS

Rather than cutting the feed in the final fortnight, FINAL keeps the plant fed with two cold-water kelps and alfalfa extract through the last two weeks of flower. Humic acid may increase micronutrient uptake.

DIRECTIONS

Rate	1 ml/L
Timing	The last two weeks of flower
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

GUARANTEED ANALYSIS

Total nitrogen (N)	**0.0232%**	Soluble potash (K_2O)	**0.1228%**
Available phosphate (P_2O_5)	**0%**		

As printed on the US product label.

DERIVED FROM

Ascophyllum nodosum and Durvillaea potatorum (seaplant extracts), Medicago sativa (alfalfa extract)
Also contains: 0.075% humic acid (from leonardite); 0.054% thiamine hydrochloride (vitamin B1)

THE SIGNATURE SIX

ROOTS · PRE · ULTRA · PHAT · OOZE · **FINAL**

PROGRAM WINDOW

Last two weeks of flower

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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SEAFUEL

Fish & kelp tonic for bloom



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**1 ml/L**
WINDOW	**Through flower**
PAIRS WITH	**SEAWEED in veg**

WHAT IT IS

SEAFUEL is cold-processed Southern Bluefin Tuna hydrolysate and southern bull kelp extract with 0.075% humic acid. It is used weekly through the bloom phase.

HOW IT WORKS

The tuna hydrolysate supplies organic nitrogen, amino acids and oils, Durvillaea kelp adds alginates and trace minerals, and humic acid may increase micronutrient uptake. Run SEAWEED through veg and switch to SEAFUEL for flower. Contains fish.

DIRECTIONS

Rate	1 ml/L
Timing	Through the bloom phase
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

DERIVED FROM

Hydrolysed Southern Bluefin Tuna (fish hydrolysate), Durvillaea potatorum (seaplant extract)
Also contains: 0.075% humic acid (from leonardite)

PROGRAM WINDOW

Through flower

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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SEAWEED

Bull kelp veg tonic



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**1 ml/L**
WINDOW	**Through veg**
PAIRS WITH	**SEAFUEL in flower**

WHAT IT IS

SEAWEED is a straight southern bull kelp (Durvillaea potatorum) extract, used as a weekly tonic through the vegetative stages.

HOW IT WORKS

Durvillaea is harvested from the cold Southern Ocean off southern Australia and carries alginates and trace minerals. It is the veg-stage partner to SEAFUEL: run SEAWEED through veg, then switch to SEAFUEL for flower.

DIRECTIONS

Rate	1 ml/L
Timing	Through the vegetative stages
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

GUARANTEED ANALYSIS

Total nitrogen (N)	**0.17%**	Soluble potash (K_2O)	**3.278%**
Available phosphate (P_2O_5)	**0.027%**		

As printed on the US product label.

DERIVED FROM

Durvillaea potatorum (seaweed extract)

PROGRAM WINDOW

Through veg

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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SWTNR

Malted barley & seawater carbohydrate



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**1 ml/L**
WINDOW	**Veg week 2 through flower**

WHAT IT IS

SWTNR is malted barley extract, seawater extract and Porphyra red seaweed with vitamin B1. It is a carbohydrate-based additive run weekly through grow and bloom.

HOW IT WORKS

Malted barley supplies natural sugars, an energy source for the plant and for the microbes already in the root zone. Seawater extract and Porphyra, a red seaweed, add ocean minerals and amino acids.

DIRECTIONS

Rate	1 ml/L
Timing	From week 2 of veg, through grow and bloom
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

GUARANTEED ANALYSIS

Total nitrogen (N)	**0%**	Calcium (Ca)	**0.13%**
Available phosphate (P_2O_5)	**0%**	Magnesium (Mg)	**0.48%**
Soluble potash (K_2O)	**0.74%**		

As printed on the US product label.

DERIVED FROM

Malted barley extract, seawater extract, Porphyra abyssicola (seaplant extract)
Also contains: 0.002% thiamine hydrochloride (vitamin B1)

PROGRAM WINDOW

Veg week 2 through flower

VEG					FLOWER (weeks from the switch to 12/12)								
Clone	V1	**V2**	**V3**	**V4**	**F1**	**F2**	**F3**	**F4**	**F5**	**F6**	**F7**	**F8**	Last 2

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HUMATE

10% humic acid supplement



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**2.5 ml/L (1 L makes 400 L of solution)**
WINDOW	**Veg through flower**

WHAT IT IS

HUMATE is a 10% humic acid supplement derived from leonardite. It goes in alongside your base feed and other additives from veg through flower.

HOW IT WORKS

Humic acid may increase micronutrient uptake. It works in any medium, soil, coco or hydro, and sits alongside the rest of your program rather than replacing anything in it.

DIRECTIONS

Rate	2.5 ml/L (1 L makes 400 L of solution)
Timing	From veg through flower
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

GUARANTEED ANALYSIS

Total nitrogen (N)	**0%**	Soluble potash (K_2O)	**3.12%**
Available phosphate (P_2O_5)	**0%**		

As printed on the US product label.

DERIVED FROM

Leonardite (humic acid), potassium hydroxide
Also contains: 10% humic acid (from leonardite)

PROGRAM WINDOW

Veg through flower

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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CAL-MAG

Calcium & magnesium supplement



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**1 ml/L**
WINDOW	**Veg through flower**

WHAT IT IS

CAL-MAG supplies calcium and magnesium from calcium nitrate and magnesium nitrate, with chelated iron and zinc. It runs weekly through the grow and bloom phases.

HOW IT WORKS

Calcium and magnesium are secondary macronutrients, and soft or RO water often carries little of either. Iron (DTPA) and zinc (EDTA) are supplied in chelated form so they stay available in solution.

DIRECTIONS

Rate	1 ml/L
Timing	Through grow and bloom; stop 1–2 weeks before harvest
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

GUARANTEED ANALYSIS

Total nitrogen (N)	**5.2%**	Soluble potash (K_2O)	**0%**
Available phosphate (P_2O_5)	**0%**		

As printed on the US product label.

DERIVED FROM

Calcium nitrate, magnesium nitrate, iron DTPA, zinc EDTA

PROGRAM WINDOW

Veg through flower

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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GROIGEN

Foliar spray for clone & veg



AVAILABLE SIZES

300 ml · 1 L · 2.5 L

AT A GLANCE

RATE	**20 ml/L in the sprayer**
WINDOW	**Clone and veg**
PAIRS WITH	**FLORIGEN in flower**

WHAT IT IS

GROIGEN is a foliar spray made from Southern Bluefin Tuna hydrolysate, seawater and Porphyra red seaweed. It is sprayed through the clone and veg stages.

HOW IT WORKS

Applied straight to the leaf, it delivers organic nitrogen from fish protein along with ocean minerals and seaweed amino acids, which is handy for young clones and when uptake through the roots is limited. Contains fish.

DIRECTIONS

Rate	20 ml/L in the sprayer
Timing	Clone and veg
Frequency	As needed, every few days
Mixing	Spray thoroughly with the lights off. No need to reduce your base fertiliser

GUARANTEED ANALYSIS

Total nitrogen (N)	**0.0571%**	Soluble potash (K_2O)	**0.0685%**
Available phosphate (P_2O_5)	**0.0304%**		

As printed on the US product label.

DERIVED FROM

Fish hydrolysate (Southern Bluefin Tuna), sea water, Porphyra abyssicola (seaweed extract)
Also contains: 0.00004% thiamine hydrochloride (vitamin B1)

PROGRAM WINDOW

Clone and veg

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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FLORIGEN

Foliar spray for flower



AVAILABLE SIZES

300 ml · 1 L · 2.5 L

AT A GLANCE

RATE	**20 ml/L in the sprayer**
WINDOW	**Flower weeks 1–4**
PAIRS WITH	**GROIGEN in veg**

WHAT IT IS

FLORIGEN is the flowering partner to GROIGEN: Southern Bluefin Tuna hydrolysate, seawater and Porphyra red seaweed, applied as a foliar spray in early flower.

HOW IT WORKS

Applied straight to the leaf, it delivers organic nitrogen from fish protein with ocean minerals and seaweed amino acids. Spray early in flower and avoid wetting dense flowers later in the cycle. Contains fish.

DIRECTIONS

Rate	20 ml/L in the sprayer
Timing	Flower weeks 1 to 4
Frequency	Every 5–7 days
Mixing	Spray thoroughly with the lights off. No need to reduce your base fertiliser

GUARANTEED ANALYSIS

Total nitrogen (N)	**0.0571%**	Soluble potash (K_2O)	**0.0909%**
Available phosphate (P_2O_5)	**0.0603%**		

As printed on the US product label.

DERIVED FROM

Fish hydrolysate (Southern Bluefin Tuna), sea water, Porphyra abyssicola (seaplant extract)
Also contains: 0.00004% thiamine hydrochloride (vitamin B1)

PROGRAM WINDOW

Flower weeks 1–4

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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SEA MINERALS

Low-sodium sea mineral trace mix



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**0.13 ml/L (1 ml per 8 L)**
WINDOW	**Veg through flower**

WHAT IT IS

SEA MINERALS is a trace mix derived from seawater, with most of the sodium removed. It is dosed at a very low rate, weekly through veg and flower.

HOW IT WORKS

Base nutrients cover the major elements; seawater minerals bring the long tail of trace elements in a low-sodium form, alongside magnesium and sulfur.

DIRECTIONS

Rate	0.13 ml/L (1 ml per 8 L)
Timing	Veg and flower, until just before harvest
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

GUARANTEED ANALYSIS

Total nitrogen (N)	**0%**	Magnesium (Mg)	**7%**
Available phosphate (P_2O_5)	**0%**	Sulfur (S)	**1.3%**
Soluble potash (K_2O)	**1.6%**		

As printed on the US product label.

DERIVED FROM

Sea water

PROGRAM WINDOW

Veg through flower

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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Always read the product label before use. Rates are a starting point; adjust for your system and growing method.

PK

Week-5 phosphorus & potassium



AVAILABLE SIZES

300 ml · 1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**1 ml/L**
WINDOW	**Flower week 5**

WHAT IT IS

PK is a phosphorus and potassium additive made from phosphoric acid and potassium hydroxide. It is added for week 5 of flower, alongside your base nutrients.

HOW IT WORKS

Phosphorus and potassium are the two macronutrients flowering plants draw on most heavily. PK supplies both for one targeted window without changing the rest of your base program.

DIRECTIONS

Rate	1 ml/L
Timing	Week 5 of flower
Frequency	Weekly, at each reservoir change
Mixing	Add to the made-up nutrient solution and stir through

DERIVED FROM

Phosphoric acid, potassium hydroxide

PROGRAM WINDOW

Flower week 5

Clone	V1	V2	V3	V4	F1	F2	F3	F4	**F5**	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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EURO A

Two-part base, part A · veg to flower



AVAILABLE SIZES

1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**2 ml/L of each part**
WINDOW	**Veg through flower**
PAIRS WITH	**EURO B, in equal parts**

WHAT IT IS

EURO A is the nitrate half of EURO, a complete two-part base nutrient that runs from veg right through flower. It is always used in equal parts with EURO B.

HOW IT WORKS

Part A carries the nitrates (potassium, calcium and ammonium nitrate) and EDDHA-chelated iron. It is kept apart from Part B's phosphates and sulfates so nothing drops out of solution in the concentrate. Works in hydro, coco or soil.

DIRECTIONS

Rate	2 ml/L of each part
Timing	Veg through flower; stop 1–2 weeks before harvest
Frequency	Weekly, at each reservoir change
Mixing	Use equal parts A and B. Add each part to the reservoir separately and stir in; never combine the concentrates

GUARANTEED ANALYSIS

Total nitrogen (N)	**2%**	Soluble potash (K_2O)	**5.5%**
Available phosphate (P_2O_5)	**0%**		

As printed on the US product label.

DERIVED FROM

Potassium nitrate, calcium nitrate, ammonium nitrate, iron EDDHA
Also contains: 0.004% thiamine hydrochloride (vitamin B1)

PROGRAM WINDOW

Veg through flower

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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Always read the product label before use. Rates are a starting point; adjust for your system and growing method.

bloom YELLOW BOTTLES

EURO B

Two-part base, part B · veg to flower



AVAILABLE SIZES

1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**2 ml/L of each part**
WINDOW	**Veg through flower**
PAIRS WITH	**EURO A, in equal parts**

WHAT IT IS

EURO B is the phosphate, magnesium and trace-element half of EURO, the complete two-part base that runs from veg right through flower. It is always used in equal parts with EURO A.

HOW IT WORKS

Part B carries monopotassium phosphate, potassium nitrate and magnesium sulfate, with copper, iron, manganese and zinc in chelated form plus boron and molybdenum. Chelation keeps the trace elements available in solution. Works in hydro, coco or soil.

DIRECTIONS

Rate	2 ml/L of each part
Timing	Veg through flower; stop 1–2 weeks before harvest
Frequency	Weekly, at each reservoir change
Mixing	Use equal parts A and B. Add each part to the reservoir separately and stir in; never combine the concentrates

GUARANTEED ANALYSIS

Total nitrogen (N)	**2%**	Soluble potash (K_2O)	**9%**
Available phosphate (P_2O_5)	**2.9%**		

As printed on the US product label.

DERIVED FROM

Monopotassium phosphate, potassium nitrate, magnesium sulfate, copper EDTA, iron DTPA, manganese EDTA, boric acid, sodium molybdate, zinc EDTA
Also contains: 0.005% humic acid (from leonardite)

PROGRAM WINDOW

Veg through flower

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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bloom YELLOW BOTTLES

GROW A

Two-part veg base, part A



WHAT IT IS

GROW A is the nitrate half of GROW, a two-part base nutrient made for the vegetative stages. It is always used in equal parts with GROW B, then swapped for FLOWER A+B at the switch.

HOW IT WORKS

Part A carries the nitrates (potassium, calcium and ammonium nitrate) and EDDHA-chelated iron, kept apart from Part B's phosphates and sulfates so nothing drops out of solution in the concentrate. Pairs with ROOTS and PRE in veg.

DIRECTIONS

Rate	2 ml/L of each part
Timing	Through the vegetative stages
Frequency	Weekly, at each reservoir change
Mixing	Use equal parts A and B. Add each part to the reservoir separately and stir in; never combine the concentrates

DERIVED FROM

Potassium nitrate, calcium nitrate, ammonium nitrate, iron EDDHA
Also contains: 0.004% thiamine hydrochloride (vitamin B1)

AVAILABLE SIZES

1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**2 ml/L of each part**
WINDOW	**Through veg**
PAIRS WITH	**GROW B; FLOWER A+B from the switch**

PROGRAM WINDOW

Through veg

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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bloom YELLOW BOTTLES

GROW B

Two-part veg base, part B



AVAILABLE SIZES

1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**2 ml/L of each part**
WINDOW	**Through veg**
PAIRS WITH	**GROW A; FLOWER A+B from the switch**

WHAT IT IS

GROW B is the phosphate, magnesium and trace-element half of GROW, the two-part base made for the vegetative stages. It is always used in equal parts with GROW A.

HOW IT WORKS

Part B carries monopotassium phosphate, potassium nitrate and magnesium sulfate, with copper, iron, manganese and zinc in chelated form plus boron and molybdenum. Chelation keeps the trace elements available in solution.

DIRECTIONS

Rate	2 ml/L of each part
Timing	Through the vegetative stages
Frequency	Weekly, at each reservoir change
Mixing	Use equal parts A and B. Add each part to the reservoir separately and stir in; never combine the concentrates

DERIVED FROM

Monopotassium phosphate, potassium nitrate, magnesium sulfate, copper EDTA, iron EDTA, manganese EDTA, boric acid, sodium molybdate, zinc EDTA
Also contains: 0.005% humic acid (from leonardite)

PROGRAM WINDOW

Through veg

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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bloom YELLOW BOTTLES

FLOWER A

Two-part bloom base, part A



AVAILABLE SIZES

1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**2 ml/L of each part**
WINDOW	**Through flower**
PAIRS WITH	**FLOWER B, in equal parts**

WHAT IT IS

FLOWER A is the nitrate half of FLOWER, a two-part base nutrient for the bloom stages. It is always used in equal parts with FLOWER B, starting at the switch to 12/12.

HOW IT WORKS

Part A carries the nitrates (potassium, calcium and ammonium nitrate) and EDDHA-chelated iron, kept apart from Part B's phosphates and sulfates so nothing drops out of solution in the concentrate.

DIRECTIONS

Rate	2 ml/L of each part
Timing	Bloom stages, from the switch to 12/12
Frequency	Weekly, at each reservoir change
Mixing	Use equal parts A and B. Add each part to the reservoir separately and stir in; never combine the concentrates

GUARANTEED ANALYSIS

Total nitrogen (N)	**5.4%**	Soluble potash (K_2O)	**3.4%**
Available phosphate (P_2O_5)	**0%**		

As printed on the US product label.

DERIVED FROM

Potassium nitrate, calcium nitrate, ammonium nitrate, iron EDDHA
Also contains: 0.004% thiamine hydrochloride (vitamin B1)

PROGRAM WINDOW

Through flower

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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FLOWER B

Two-part bloom base, part B



AVAILABLE SIZES

1 L · 2.5 L · 15 L

AT A GLANCE

RATE	**2 ml/L of each part**
WINDOW	**Through flower**
PAIRS WITH	**FLOWER A, in equal parts**

WHAT IT IS

FLOWER B is the phosphate, magnesium and trace-element half of FLOWER, the two-part bloom base. It is always used in equal parts with FLOWER A, starting at the switch to 12/12.

HOW IT WORKS

Part B carries monopotassium phosphate and magnesium sulfate, with copper, iron, manganese and zinc in chelated form plus boron and molybdenum. Chelation keeps the trace elements available in solution.

DIRECTIONS

Rate	2 ml/L of each part
Timing	Bloom stages, from the switch to 12/12
Frequency	Weekly, at each reservoir change
Mixing	Use equal parts A and B. Add each part to the reservoir separately and stir in; never combine the concentrates

GUARANTEED ANALYSIS

Total nitrogen (N)	**1%**	Soluble potash (K_2O)	**8.2%**
Available phosphate (P_2O_5)	**3.6%**		

As printed on the US product label.

DERIVED FROM

Monopotassium phosphate, magnesium sulfate, copper EDTA, iron DTPA, manganese EDTA, boric acid, sodium molybdate, zinc EDTA
Also contains: 0.005% humic acid (from leonardite)

PROGRAM WINDOW

Through flower

VEG					FLOWER (weeks from the switch to 12/12)								
Clone	V1	V2	V3	V4	**F1**	**F2**	**F3**	**F4**	**F5**	**F6**	**F7**	**F8**	Last 2

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bloom YELLOW BOTTLES

SILICA

Potassium silicate concentrate



AVAILABLE SIZES

250 ml · 1 L · 5 L · 15 L

AT A GLANCE

RATE	**0.17 ml/L recirculating or soil; 0.33 ml/L run-to-waste**
WINDOW	**Veg through flower**

Caution. Strongly alkaline. Read the safety directions on the label before opening.

WHAT IT IS

SILICA is a concentrated potassium silicate: 31% silicon (derived from monosilicic acid) and 21.2% soluble potash. It is used at very low rates from veg through flower.

HOW IT WORKS

Silicon is taken up by the plant and laid down in the cell walls, supporting stem and cell-wall strength and helping plants handle environmental stress. Because it is strongly alkaline, it also raises the pH of the nutrient solution.

DIRECTIONS

Rate	0.17 ml/L recirculating or soil; 0.33 ml/L run-to-waste
Timing	Veg through flower; stop about a week before harvest
Frequency	Weekly, at each reservoir change
Mixing	Make up the base nutrient first, then add SILICA and adjust pH after it goes in

GUARANTEED ANALYSIS

Total nitrogen (N)	**0%**	Soluble potash (K_2O)	**21.2%**
Available phosphate (P_2O_5)	**0%**	Silicon (Si)	**31%**

As printed on the US product label.

DERIVED FROM

Potassium silicate; silicon derived from monosilicic acid

PROGRAM WINDOW

Veg through flower

Clone	V1	V2	V3	V4	F1	F2	F3	F4	F5	F6	F7	F8	Last 2
VEG					FLOWER (weeks from the switch to 12/12)								

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