



Associated Video ↓

<https://youtu.be/vk2Y3esNgfU>

www.KootMed.com

Photone Grow Light Meter (Video) →

<https://youtu.be/VcLKjqJCwvc>

Download Photone App →

<https://growlightmeter.com>

Koot's - JACKS 3-2-1 Feed Chart

Updated 01/01/2024

Base Nutes With Minimal Additives

(All Measurements are Per Liquid Gallon)

Legend: gal = gallon ml = milliliters g = grams Tbsp = tablespoon tsp = teaspoon

Base Nutes In Reservoir (Normal Feedings)

Koot's Mixing Order →

5-12-26 0-0-0 15-0-0

Note: Light intensity shown in ppfd

Jacks Epsom** JACKS (B)

↓ with No supplemental CO2.

Hydro Salt Cal-Nitrate

Seedling:

Straight Water Week 1 ← 100-150 ppfd Feed Clones @50%

25% Strength Week 2 Feed Clones @50%

Vegative Cycle:

50% Strength Week 1 ← 3.5-4 inches tall 200-300 ppfd

80% Strength Week 2

100% Strength Week 3 ← Early Veg - 350-400 ppfd

100% ↓ Week 4

Week 5

Week 6 ← Mid Veg - 450 ppfd

Week 7

Week 8

Week 9 ← 1 Week Before Flip 500-550 ppfd

Flower Cycle:

Week 1 ← Flip to Flower 650-750 ppfd

Week 2 ← ↓ Weeks 2 & 3 800-850 ppfd

Week 3

Week 4 ← ↓ 800-950 ppfd (strain specific)

Week 5

Week 6

Week 7

Week 8

Week 9 ↓ Reduce ppfd last 7-10 days

Week 10 ← 800-850 ppfd (reduction optional)

Minimal Inputs. All other Inputs are optional.

Optional Supplemental Top Feeding

(Every 3-4 weeks. Replaces Regular Feeding)

Microbe Mix

wetting agent →

wetting agent →

Microbe Mix

Microbe Mix

Microbe Mix

wetting agent →

wetting agent →

Microbe Mix

Microbe Mix

Microbe Mix

Note: pH 5.8-6.1 for all Normal & Supplemental Feedings

Grow Medium

Canna Coco (50 liter/1.75cf bag)

plus 1 cup/gal (pot size) BuildASoil Pumice (improves drainage)

↑ or 13 cups/50 liter bag of coco.

One Time Root Inoculation @ Transplant

1/8 tsp / plant - BuildASoil Beauveria Bassiana Plus (Root Application)

Microbe Mix

1 tsp (5 grams)/gal - Real Growers ReCharge (microbes/trichoderma)

1 Tbsp/gal - Plantation Organic Blackstrap Unsulfured Molasses †

1 ml/gal Impello Tribus Original (microbes)

1 Tbsp/gal - Neptune's Harvest Seaweed 0-0-1 or Fish & Seweed 2-3-1

1/2 tsp / gal - Jay Plantspeaker's Quillaja Saponaria Extract 20
or 1/8 tsp / gal - Jay Plantspeaker's Quillaja Saponaria Extract 60

Or Use In Place of Above Microbe Mix

1 tsp / gal - Rootwise Mycrobe Complete (veg stage) or ↓

1 tsp / gal - Rootwise Bio-Phos (flower stage)

1 tsp / gal - Rootwise Bio-Catalyst

1 tsp / gal - BuildASoil Horticultural Aloe

1 tsp / gal - Coconut Water Powder - Raw Freeze Dried Organic

1 Tbsp/gal - Neptune's Harvest Seaweed 0-0-1 or Fish & Seweed 2-3-1

1/2 tsp / gal - Jay Plantspeaker's Quillaja Saponaria Extract 20

or 1/8 tsp / gal - Jay Plantspeaker's Quillaja Saponaria Extract 60

Top Feed with Minimal to No Runoff. Apply every 2-3 weeks.

* Silica (Si)

Should be added before any other nutrients or additives.

Stop 2 weeks prior to harvest. Use only 1 product below:

GH Armor Si: @ 2.5ml/gal (10% Silicon Dioxide)

Alchemist Stout MSA: @ 3-5ml/gal (1.25% Mono Silicic Acid)

Calcium and/or Magnesium Deficiencies

Jacks Cal-Nitrate and Epsom may be increased to provide additional calcium and/or magnesium.

or ** GH CaliMagic @ 2.5ml-5ml/gal may be used for deficiencies.

† Molasses: Unsulfured Molasses used as a food source for microbes.

‡‡ (optional) Flush: Feed regular amounts using only water for the last 7-10 days of flower @pH 6.0-6.1(optional)

Jacks 3-2-1 Nute Recipe

	Jacks 5-12-26	Epsom**	Cal-Nitrate	PPM/EC (Before Silica)
Nute Strength (100%):	3.6 g	1.2g	2.4 g	1000-1100/2.0-2.2
Nute Strength (80%):	3.0 g	1.0 g	2.0 g	750-850/1.5-1.7
Nute Strength (50%):	1.8 g	0.6g	1.2g	500-550/1.0-1.1
Nute Strength (25%):	0.9 g	0.3 g	0.6 g	250-325/0.5-0.65

Jacks may be reduced to 80% strength for sensitive plants or none RO high ppm/ec water.

+++ (optional) Jacks Flower Boost & Finish Recipes

Koot's Mixing Order →	Jacks Bloom 10-30-20	Jacks Finish 7-15-30	Epsom	Cal-Nitrate 15-0-0
First 7 Days of Flower:	3.5g/gal	-----	1.2g/gal	1.2g/gal (optional)
1 Week Prior to Harvest/Flush:	-----	5.0g/gal	1.2g/gal	1.2g/gal (optional)

Greengenes Boost, pH Nutrient Availability & EC to PPM Covertion Charts available for download @:

<https://www.kootmed.com/Feeding.html>

<https://www.dropbox.com/sh/qo0041z2gufsc6m/AACSD3gbtVhrKp76HcHAo7Bia?dl=0>

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