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Koot's - JACKS 3-2-1 Feed Char Updated 12/08/2022

Base Nutes With Minimal Additives

(All Measurements are Per Gallon)

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

Base Nutes In Reservoir (Normal Feedings)

Koot's Mixing Order→

Seedling:

		5-12-26	0-0-0	15-0-0
		Jacks	Epsom**	JACKS (B)
see notes*	Hydro	Salt	Cal-Nitrate	
Straight RO Week 1	----	----	----	----
25% Strength Week 2 <Wk 1 Clones>	25% Strength*	0.9 g	0.3 g	0.6 g
50% Strength Week 3 <Wk 2 Clones>	50% Strength*	1.8 g	0.6 g	1.2 g
80% Strength Week 4 <Wk 3 Clones>	80% Strength*	3.0 g	1.0 g	2.0 g

Vegative Cycle:

Week 1	see notes*	3.6 g	1.2 g	2.4 g
Week 2	see notes*	3.6 g	1.2 g	2.4 g
Week 3	see notes*	3.6 g	1.2 g	2.4 g
Week 4	see notes*	3.6 g	1.2 g	2.4 g
Week 5	see notes*	3.6 g	1.2 g	2.4 g
Week 6	see notes*	3.6 g	1.2 g	2.4 g
Week 7	see notes*	3.6 g	1.2 g	2.4 g
Week 8	see notes*	3.6 g	1.2 g	2.4 g

Flower Cycle:

Week 1	see notes* †††	3.6 g	1.2 g	2.4 g
Week 2	see notes* †††	3.6 g	1.2 g	2.4 g
Week 3	see notes*	3.6 g	1.2 g	2.4 g
Week 4	see notes*	3.6 g	1.2 g	2.4 g
Week 5	see notes*	3.6 g	1.2 g	2.4 g
Week 6	see notes*	3.6 g	1.2 g	2.4 g
Week 7	see notes*	3.6 g	1.2 g	2.4 g
Week 8	see notes*	3.6 g	1.2 g	2.4 g
Week 9	see notes †† †††	----	----	----
Week 10	see notes †† †††	----	----	----

Optional Supplemental Top Feeding

(Every 3-4 weeks. Replaces Regular Feeding)

Microbe Mix

Microbe Mix

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Microbe Mix

Microbe Mix

General Notes

pH 5.8-6.1 for all Normal & Supplemental Feedings

Grow Medium

Canna Coco or BioBizz Organic Coco Mix
plus 8 quarts of Organic Perlite per 50 liter bag of coco

Microbe Mix

Top Feed with Minimal to No Runoff

2.5-5 grams/gal - Real Growers ReCharge (microbes/trichoderma)

1 ml/gal Impello Tribus Original (microbes)

1 Tbsp/gal - Neptune's Harvest Seaweed 0-0-1

1 Tbsp/gal - Plantation Organic Blackstrap Unsulfured Molasses †

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

or 1/2 tsp/gal Extract 20 ↑ (wetting agent)

Or Use In Place of Above Microbe Mix

1/2-1 tsp /gal - Rootwise Mycrobe Complete

3-5 ml/gal - Rootwise Bio-Catalyst or In Place of Bio-Catalyst use ↓

1/2-1 Tbsp/gal - Plantation Organic Blackstrap Unsulfured Molasses †

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

or 1/2 tsp/gal Extract 20 ↑ (wetting agent)

* 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.

** GH CaliMagic @ 2.5ml/gal

May be used to Pre-Charge coco coir 72-96 hours prior to planting.
(Desired Cal/Mag Concentration of water 150-250ppm/0.3-0.5EC.)

† 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

PPM/EC

(Before Silica)

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

** Epsom is optional with Jacks @ Full Strength. Jacks 5-12-26 already contains Magnesium Sulfate
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)
Note: Boost & Finish Recipes should be run for 7 days within the above time periods.				

Greengenes Garden Boost Recipe: <http://www.kootmed.com/downloads/FEED/Greengenes-Boost.pdf>

pH Nutrient Availability Chart: <http://www.kootmed.com/downloads/FEED/pH-Chart.pdf>

EC to PPM Covertion Chart: <https://kootmed.com/downloads/FEED/PPM-EC-CONVERSION-CHART.pdf>