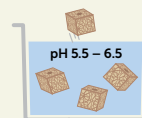


# Growing in Grodan is as easy as



## Saturate

Saturate Grodan Starter Plugs and Cubes in a nutrient solution of roughly 1.5 EC and 5.5 pH with a course spray or submerged in the solution for up to 2 minutes. Let drain.



## Take Cuttings

Choose equal length and diameter cuttings from new growth, no more than 14 days old, near top of plant. Apply rooting solution to cut only, preventing it from getting on the stem.

Insert stem 1/2 inches into the conditioned Grodan starter plug.

- Place Starter Cubes in a propagation dome or humidity tent.

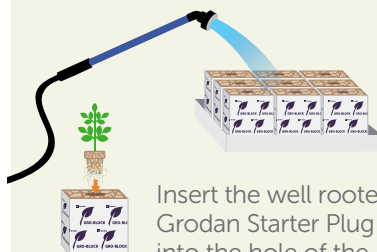
Monitor the wet weight. Once the wet weight reaches about half, apply an irrigation with a nutrient solution of 1.5 EC and 5.5 pH. Drain excess to prevent mould, algae and disease.



## Transplant

When starters are well rooted with strong white roots emerging from the plug, transplant the cutting to a larger Grodan Improved Gro-Block.

Saturate Grodan Gro-Blocks with a nutrient solution of 1.5 to 2.0 EC and 5.5 to 6.0 pH by watering wand / boom with 6 to 8 slow passes on a flood table, or submerge in the nutrient solution until they sink and bubbling stops.



Insert the well rooted Grodan Starter Plug into the hole of the conditioned Grodan Improved Gro-Block.

Measure the weight of the block at saturation and throughout the growing cycle. When the water content of the blocks is 55% to 65% apply the first irrigation.



## Irrigation: Golden Rule is Transpiration Before Irrigation

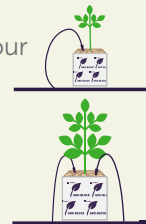
Apply at least one irrigation within 1 hour after lights on

Second irrigation close to mid-day

Achieve 10 - 30% runoff of the daily irrigation for proper re-saturation and nutrient replacement

Adjust irrigation throughout the life cycle for strain, environment and root zone conditions.

- In Veg use smaller volumes of nutrient solutions (3%) at a higher frequency for vigorous leaf, stem and structural tissue growth.
- In Flower use larger volumes of water (6%) at lower frequency to steer growth generatively.



Do NOT over saturate the Grodan Gro-Blocks to prevent algae, slow plant growth and disease pressure.

Do NOT allow the Grodan Gro-Blocks to dry back below 50% of wet weight to prevent slow growth, slow root development and inconsistencies between plants. Drying back beyond 50% of wet weight will make it harder to re-saturate the media and create dry spots in the blocks.



**For more information on Grodan products and using them for optimal crop quality and yield, check out [www.grodan101.com](http://www.grodan101.com)**

Part of the ROCKWOOL Group

Disclaimer: Neither Grodan nor its employees are cultivators or manufacturers of cannabis. Neither GRODAN nor its employees advocate for or encourage the cultivation of marijuana. GRODAN and its employees shall only engage with those state-licensed or state-approved marijuana business who maintain active licenses and constant compliance with the respective state and local licensing authorities.



**Grodan®**