

Grodan® vs. Clay Rocks



Eggplants in Grow-Cubes vs. Clay Rocks

- Use either Grow-Cubes or Grow-Chunks (also known as croutons) for your plant medium.
- No need to pH adjust croutons before use (unless you have hard/high pH water).
- If using clay rocks, mix in Grow-Cubes (50/50 mix). The more croutons, the better the growth.
- More feeder roots develop in stonewool than in other media, providing for faster plant growth.
- There is more plant stability in stonewool than in artificial plastic inserts or clay rocks.
- Experience easier transition (less shock) from plants growing in Grodan Gro-Blocks transplanted into a bucket filled with more Grodan.



Grodan vs. Clay Rocks

Gro-Right. Gro-Better. Gro-Happy.

Did you know....

Roots will adapt to the media they grow in. For example, a coarse-grade medium (such as rocks) produces thicker roots to anchor the plant. Whereas a fine-grade medium like Grodan will produce more feeder roots that are thinner, like tiny hairs. These tiny hairs that plants produce have a greater surface area which enables them to uptake nutrients better.

**More feeder roots means
faster plant growth.**

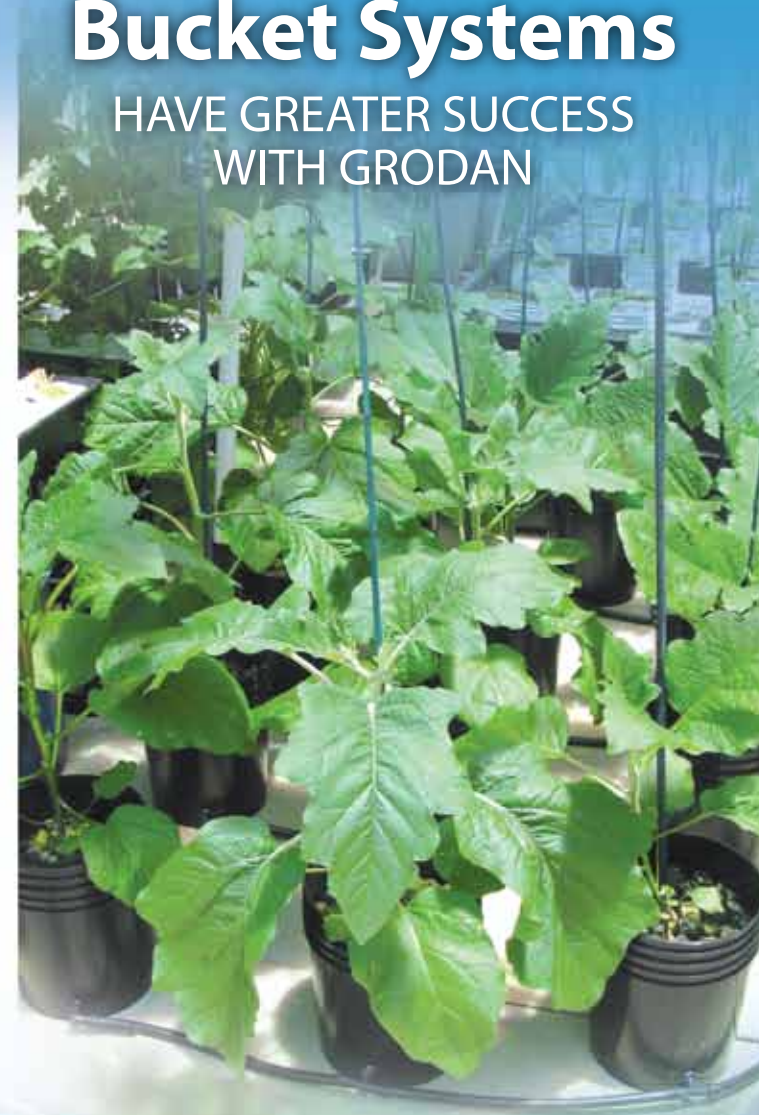
Your local store:

Classified by World Health Organization as a bio-soluble product. MSDS available on Website below.
ISO 9000 & 14001 and Eco-Label (NL/029/1Quality)
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A GUIDE TO Ebb and Flow Bucket Systems

HAVE GREATER SUCCESS
WITH GRODAN



grodan®

For more information visit our Website
www.grodan101.com

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Why Grodan?

The popularity of bucket-style ebb and flow (flood) systems has skyrocketed recently among hydroponics hobbyists. However, growers have experienced limited success using media such as clay rocks or artificial plastic inserts. Fortunately there is a natural product that works better – Grodan!

The following products are perfect for use in ebb and flow bucket systems:



Grow-Cubes™ (small croutons)

Grow-Cubes can be used on their own or mixed in 50/50 with clay rocks, to improve growth in place of just rocks.



Grow-Chunks™ (large croutons)

Grow-Chunks are the larger version of the croutons. These should be used on their own since the pieces are too large to easily mix properly with clay rocks.



Grow-Cube



Grow-Chunk

How To Use Grodan In Your System



- 1
- Make sure grow area is clean.
 - Set up the system according to the instructions of whichever system you buy.
 - Use either all Grow-Cubes or Grow-Chunks.
 - If you want to mix with the clay pellets, then only use Grow-Cubes because they are smaller croutons. We recommend a 50/50 mix. The more Grodan used, the better the results.



- 2
- Generally no pH adjusting is needed, just soak your croutons in plain water before use.
 - But if you have hard water (high pH), it would be best to soak in water adjusted to pH 5.5.
 - Drain the croutons to waste by pouring them in the buckets with holes that come with your system. When fully drained, put those buckets into the system you set up.



- 3
- Fill the system's reservoir with a hydroponic solution (EC 1.5 and pH 5.8 works well).
 - We recommend using Grodan starters and Gro-Blocks™ for the best transplants, but you can transplant from any medium into the croutons.
 - Carefully transplant each plant into the buckets.
 - Once transplanted, start your watering cycle.



- 4
- Flood 4 times a day for 15 minutes each cycle for sufficient growth.
 - But adjust flooding frequency and cycle length according to the growing environment and stage of plant growth. You may need to flood more or less per day.
 - Check pH and increase EC (or PPM) as the plants grow. Switch to a bloom solution when the plants begin to flower.