

# Rock Resinator (RSN8) Testing for Efficacy in Increasing Essential Oils & Resins in Scotch Spearmint

## For Rock Nutrients Study Conducted By Erik Biksa (AG-Dip.)

### **Section III-Harvesting & Drying Scotch Spearmint from Controlled Environment Crop (for the purposes of extracting essential oils & resin content)**

The crop of Scotch Spearmint being grown in the controlled study to determine if Rock Nutrients Resinator increased resin and essential oil contents in common crops produced for their essential oil contents was harvested February 11th, 2014. The crop had been planted from air-shipped root stock, which was transplanted to break dormancy on December 5th, 2013.

SEE, CROP RESIN PRODUCTION TESTING (Grow Journal Study) for real-time updates and images that occurred during the course of the growing trial for efficacy data gathering purposes.

All plants were harvested on the same day and of the same maturity from plant to plant.

Plants were cut down to ONE INCH above the grade of the soilless peat mix in either the GROUP (10 gallon, four plants) or SINGLE (5 gallon, one plant) planting containers for either TEST or CONTROLS.

To recap from the Grow Journal Study, the breakdown is as follows:

EIGHT Scotch Spearmint plants were transplanted in 5 Gallon "Top Hat" Nursery Pots, as follows:

4-TEST

4-CONTROL

SIXTEEN Scotch Spearmint plants were arranged Four Per 10 Gallon Grow Tub, as follows:

2-TEST

2-CONTROL

The climate for drying the Scotch Spearmint harvest was maintained at 68-72 Deg F and 40-45% Relative Humidity for a period of two weeks.

Following, temperature was maintained as before (68-72 Deg F), and Relative Humidity was increased to 55-60% . The Scotch Spearmint remained in a darkened area (no light sources, natural or artificial) until April 18th 2014.

NOTE: The aromatic qualities of the crop became very pronounced by the end of the Curing Phase-when collecting the dried material and carefully (gently) separating the various samples for essential oil distillation to follow (into Zip-Lock type freezer bags), the intense aromatic qualities proved almost overwhelming in an enclosed area.

SEE Section IV, EXTRACTION for Images and Description of dried plant material just prior to the direct steam distillation extraction process.



TEST plant, harvest



scotch spearmint at harvest



TEST #1 Planter, Harvest



CONTROL #1 Planter, Harvest



TEST #2 Planter, Harvest



CONTROL # 2, Planter



TEST #1, 5 Gallon



CONTROL #1, 5 Gallon



TEST #2 5 Gallon



CONTROL #2, 5 Gallon



TEST #3, 5 Gallon



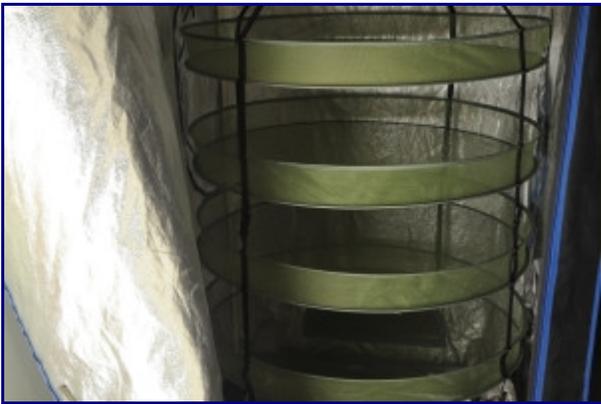
CONTROL #3, 5 Gallon



TEST #4, 5 gallon



CONTROL #4, 5 Gallon



drying rack-detail



drying conditions