

# Lobularia

## Exploring effective PGR Solutions

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Product Management's - Home Grower

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# Introduction:

- In light of the increasingly strict global regulations regarding the use of plant growth regulators (PGR's), we aimed to evaluate alternative solutions.
- This trial focused on assessing the response of *Lobularia* to several commonly used PGRs: CCC, Alar, and Cultar.
- *Lobularia* requires effective growth control treatments in order to achieve a compact, high-quality appearance that meets market standards and performs well in small pots.
- The goal was to observe and compare the visual impact and growth habits resulting from each treatment, in order to identify effective and compliant options.
- The trial included Danziger's Stream and Stream Compact series, which were evaluated under the different PGR treatments in 3 separate groups.

\*\*\* The data in the presentation is based on a single observation in Israel and cannot be relied upon. The information is shared for internal use only, may not be disclosed to other parties and Danziger shall have not liability or responsibility with respect to the said information or its implication.



# PGRs Comparison:

Parameter	ALAR – Daminozide (85%) (Spray)	CCC - Chlormequat chloride (70%) (Spray)	Cultar – PACLOBUTRAZOLE (250gr/L)
Growth Suppression Strength	Mild to Moderate	Moderate	Very Strong
Ease of Use	Forgiving, low risk of overuse	Moderate precision required	Requires high precision
Crop Safety (Phytotoxicity)	Very Safe	Medium – Risky in high temperatures and concentrations	Medium – Risky in high concentrations
Market Price	High	Low	Low
Duration of Effect (depend's on crop sensitivity)	Short (few weeks)	Short (1-2 weeks)	Long (4+ weeks)
Required Concentration	1-3 gr\L = 1000-3000PPM	1.25-3.75 ml\L = 500-1500PPM	Drench – 0.125-0.5PPM Spray – 1.25-5PPM <b>**Requires prior dilution</b>

# Cultivation process:

\*\* Stream White – ALAR Group



Week Number	Action
6	Sticking
9	Pinching
9	Planting

## ALAR – Daminozide (85%)

Week Number	Action
11	3gr\L Spray
13	3gr\L Spray
14	3gr\L Spray
15	Ready To Sell

## CCC - Chlormequat chloride (70%)

Week Number	Action
11	3.75ml\L – Spray 1500PPM
13	2.5ml\L – Spray 1000PPM
15	Ready To Sell

## Cultar – PACLOBUTRAZOLE (250gr/L)

Week Number	Action
10	0.25PPM Drench
14	0.125PPM Drench
15	Ready To Sell

# Stream Com. White

Week 12 – 20\3:



Week 15 – 4\4:



# Stream Com. Violet

Week 12 – 20\3:



Week 15 – 4\4:



# Stream Com. Rose

Week 12 – 20\3:



Week 15 – 4\4:



# Stream Com. Purple

Week 12 – 20\3:



Week 15 – 4\4:



# Stream Champagne

Week 12 – 20\3:



Week 15 – 4\4:



# Stream White

Week 12 – 20\3:



Week 15 – 4\4:



# Stream White Imp.

Week 12 – 20\3:



Week 15 – 4\4:



# Stream Raspberry Imp.

Week 12 – 20\3:



Week 15 – 4\4:



# Stream Purple Imp.

Week 12 – 20\3:



Week 15 – 4\4:



# Stream Lavender

Week 12 – 20\3:



Week 15 – 4\4:



**ALAR spray Group**



**Cultar drench Group**



**CCC spray Group**



# Results, Discussion and Conclusions:

## Plant's Growth effect

- The results clearly demonstrate the effectiveness of growth regulation treatments across Danziger's Lobularia varieties. The response was particularly noticeable in the Stream series, known for its more vigor growth habit.
- Among the tested compounds, **Cultar** and **CCC** showed strong PGR effects, achieving desirable plant form with relatively few applications, while **Alar** had minimal impact and did not result in significant growth reduction.

## Foliage effect:

- **CCC** induced leaf edge chlorosis, possibly indicating mild phytotoxicity and/or to high concentrations used in this cultivation.



**CCC leaf chlorosis**



# Results, Discussion and Conclusions:

## Flowering Effect:

- **CCC** negatively affected flowering performance and mechanical strength.
- While **Alar** had no noticeable PGR effect, a distinct difference was observed in flower color, particularly in the non-white varieties: flowers in the **Alar**-treated group appeared more vivid compared to the lighter tones seen in the **Cultar** and **CCC** treatments.

\*\* The image shows a parallel trial: flowers on the Alar-treated plant appear more vibrant than on the untreated one, suggesting Alar enhances color intensity rather than color fading being caused by dwarfing.





# THANK YOU!

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