

Cultural recommendation

Gentiana

Description

Name: Gentiana cultivars

Family: Gentianaceae

Varieties: Luis Easy Blue, Luis Easy White, Luis Big Blue

Product use

Use: Bedding plant, summer- autumn sales

Exposure: Full sun to part shaded



Technical recommendations

Potting / plants per m²: Recommended pot size 10-12cm. The cultivation time is around 12-14 weeks. Plants per m² depending on the pot size (for a 12cm pot around 28-32 plants/m²). Rooted cuttings should be planted so that the top of the rooting medium is at or slightly below the top of the growing medium in order to avoid the risk of diseases.

Substrate: Use a porous media with good drainage and water holding capacity. pH 5.4-5.7 during the whole production time. As a basic fertilization starter, a maximum 1 gr/l compound fertilizers should be in the substrate. Slow release fertilizers will harm and delay the crop under hot summer conditions.

Fertilizer: Strong fertilization during first 3-4 weeks with high N. Use a complete fertilizer balance 4:1:2 N-P-K with Ca, Mg and micronutrients at 1-1,2 gr/l in every watering with balanced nutrition components. Switch towards the end of the crop to a fertilizer balance 3:2:3 N-P-K with Ca, Mg and micronutrients.

Temperature: First 2-3 weeks keep temperature 16-18°C (61-65°F) until the crop is well established. Then minimum temperature should be > 8°C (43°F). Recommended production under greenhouse conditions. Cool morning is a good strategy to avoid soft plants.

Water: Use rain or high quality water, avoid hard water. Keep medium to wet substrate. Never allow substrate to dry out.

Light levels: full sun to part shade under hot summer conditions

Growth control: In general not needed because *Luis Easy Blue* and *Luis Easy white* are fairly compact varieties. Providing cool temperatures and high light will also help to prevent the stretch.

PGR's: No PGR's needed for *Luis Easy Blue* and *Luis easy White*.

Luis Big Blue is the most vigorous variety and 4-5 PGR treatments are recommended. First treatment should be done during the first growing stages (12-15 days after potting when roots are well developed) Best results with Daminozide (85%) at 0,3% + Paclobutrazole(0,4%) at 0,15 %. Best results are achieved at low doses with continuous treatments.

Pinch: No pinch needed under greenhouse conditions. Young plants are already pinched.

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Pest and Diseases: Aphis, thrips and fungus gnats are the most common insect on Gentiana. Start with clean material a well disinfected facilities together with a proper pest management program using different control strategies: exclusion, monitoring, biological and chemical control, are the best tools to control these pests.

Gentiana can be sensitive to Phytophthora, Pythium and Thielaviopsis. Disease management should be addressed by sanitation strategies, environmental conditions control, biological and chemical control.

For the chemical control, follow the registration uses of each product in each region

Crop schedule * 10,5 cm pot

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Greenhouse production	P											F	F	F

P: Potting F: Finish plant

*This is a reference time schedule that can vary depending growing conditions and region. Schedule start from RC.

Crop schedule * 12 cm pot

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Greenhouse production	P												F	F	F

P: Potting F: Finish plant

*This is a reference time schedule that can vary depending growing conditions and region. Schedule start from RC.

NOTE: Growers should use the information presented here as guidelines only. Selecta One recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by Selecta One of any products listed herein