Rudbeckia hirta

Tablemate

Gold

Item no.: RH0901R



The Perfect Gift Item for more Happiness!

- Genetically compact pot type
- Golden flowers on floriferous plants
- For indoor and outdoor use

Crop Time	Spring: 15 - 17 weeks , Summer: 14 - 15 weeks
Height ⌀	9 " / 23 cm
Width ⌀	9 " / 23 cm
Flower Size ⌀	2 " / 5 cm
Exposure	Sun
Seed Form	Raw Seed
Product Use	Gift Item, Pots, Containers
Family, Origin	Asteraceae, North America
Minimum Germ. Rate	80%

TECHNICAL GUIDE

Rudbeckia hirta Tablemate

Flowering

Flowering Type: Obligate long day plant. Long days with higher light intensity result in faster flowering.

Flowering Mechanism: Flowering is affected by day length. A day length > 14 hours will result in flower initiation.

Shelf Life of Tablemate: Indoors 2-6 weeks, depening on the light. Outdoors at least 12 weeks with continuous blooming when removing the wilted flowers.

Plug Culture

Germination: Optimum conditions for seedling development should begin on the day of sowing until radicle emergence. Expect root emergence in 5-8 days, depending on temperature and moisture.

Cover: No cover is necessary however a light covering of vermiculite will aid in maintaining proper moisture and humidity levels during germination.

Sowing method: 1-2 seeds per plug, depending on the pot size. Direct sowing into final pot is also possible.

Media: pH 5.8–6.2. EC <1.0.

Temperature: 20–22 °C (68–72 °F) night and day.

Moisture: Begin with a moisture level slightly higher than a wet (4) until root emergence has occurred. Then begin to dry back the media slightly. Alternate between a moisture level wet (4) and medium (2) to prevent root rot diseases.

Humidity: 95–100 % until radicle emergence, then reduce to 40–60 %. Provide proper ventilation and horizontal airflow to improve oxygen levels in the media. **Light:** Supplemental lighting is not required, but beneficial for the germination phase. For the first 4-5 weeks, keep the day length less than 13 hours to keep the seedlings from premature flower initiation. Provide light levels of 2,500–4,500 ft. candles (25,000–45,000 lx).

Fertilizer: Maintain an EC < 1.0. Begin feeding once germination is complete. Fertilize with a calcium–based fertilizer 14–0–14, 17–5–17 or similar at 50 ppm N.

Plug Bulking and Flower Initiation: Maintain optimal conditions during the vegetative stage from cotyledon expansion to flower initiation.

Growth Regulators: Do not apply PGRs or pinch the plants, they are genetically compact.

Fungicides: Preventative sprays with fungicides should be done early to prevent diseases such as botrytis.

Growing On

Media: pH 6.0-6.2; EC 1.5-1.75. Use a well-drained, growing substrate with 20-30 % clay, 2 kg/m^3 complete balanced fertilizer, iron-chelate and micronutrients.

Light: To induce flowering supplemental lighting greater than 14 hours is needed or natural day length of over 14 hours. High intensity lighting is not required for long day extension.

Temperature: The plants like temperatures of 18-20 °C (64-68 °F) for optimal growth. Cooler temperatures of 16-18 °C (60-64 °F) support the uniformity and compactness of the plants, even if the crop time increases somewhat. Temperatures below 16 °C (60 °F) can cause red coloring of the leaves. Rudbeckia does not tolerate frost. An outdoor production is possible.

Moisture: Alternate between moisture levels wet (4) and medium (2). Allow the media to approach a medium (2) before resaturating to a wet (4) to provide oxygen to the roots and prevent root rot diseases. Dry plants quickly show chlorotic leaves and will not recover well from the permanent wilting point.

Humidity: 40-60 % humidity is ideal. Providing good ventilation and horizontal airflow will help lower the humidity, resulting in fewer disease issues.

Fertilizer: The plants require high fertilization levels to avoid yellow leaves. Fertilize with a well balanced calcium based feed, 14-4-14; 15-5-15 or 17-5-17 at 100-150 ppm N. Under higher light conditions occasional feeding with a higher nitrogen fertilizer can be used.

Growth Regulators: No PGR or pinch is required to manage branching or height as the plants grow genetically compact. PGRs may be used to manage flower timing. At high greenhouse temperatures, a soft spray of daminozide will keep the terminal flower stem shorter. Approximately two weeks after plants are established in their final container and flower initiation has occurred, place them under short day conditions to shorten plant height.

Fungicide: Apply fungicides during long periods of low light and high humidity. In particular, preventive treatments against botrytis are essential.

Common Diseases: Botrytis, powdery mildew.

Post Harvest: Fertilize with potassium nitrate at 100 ppm N 1-2 weeks prior to shipping.

Plug & Finished Crop Time
Rooting Time

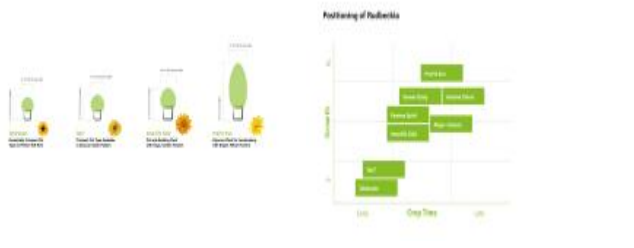
288 tray: 5-6 weeks
128 tray: 6-7 weeks

Finished Crop Time

10,5-13 cm (4-5") pots (1*): 9-10 weeks

15-19 cm (7-8") pots (2*): 10-11 weeks

Timing & Positioning Charts



Moisture Codes

Saturated (5)	Water is easily observed when finger is pressed on cell. Water moves freely from the top of the plug to the bottom.
Wet (4)	Media looks black and is not glistening. The media feels wet to the touch but there is very little water movement.
Moist (3)	Water is not easily visible. When finger is pressed on the cell there is very little movement from top to bottom.
Medium (2)	Media is not black, but now looks medium brown. There is no water movement when pressed with finger.

Dry (1)	Media has changed color to a very light brown and is dry to the touch.

All information in our technical guide is based on our own trials and would therefore be as guideline only. Detailed cultivation aspects vary depending on climate, location, time of year and environmental conditions. Benary expressly disclaims any responsibility for the content of such data/information and makes no representation or warranty for the cultivation of any products listed. It is recommended that growers conduct a trial of products under their own conditions.

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