



CROP MANUAL

Bidens ferulifolia







Central Europe
North Europe
South Europe



Solaire® M Star
Solaire® Semi-double compact
Solaire® L Horizon
Charm Yellow

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Finished Plant **Bidens Solaire M Star, Semi-double compact, Charm**





Variety 	Type 	Leaf colour 	Pot size 
Solaire M Star	Compact	green	7-10,5 cm
Solaire Semi-double compact	Compact	green	10,5-12 cm
Charm	Compact	green	7-12 cm
Solaire L Horizon	Vigorous	green	>=12 cm and Hanging Baskets

Remarks

Culture time can vary from 1 to 2 weeks depending on light and temperature. In packs you can reduce crop time by 1 to 2 weeks also.

Calendar Week	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
Scheduling from standard rooted material similar to 3 cm plug/Xtray128 without pinch. Oneplant per 10-12 cm pot	P								F	F											
		P								F	F										
			P								F	F									
				P								F	F								
					P								F	F							

Finished Plant Bidens Solaire L Horizon in hanging baskets

Variety 	Type 	Leaf colour 	Pot size 
Solaire M Star	Compact	green	7-10,5 cm
Solaire Semi-double compact	Compact	green	10,5-12 cm
Charm	Compact	green	7-12 cm
Solaire L Horizon	Vigorous	green	>=12 cm and Hanging Baskets

Remarks

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Calendar Week	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Scheduling from standard rooted material similar to 3 cm plug/Xtray128 without pinch. 3 plants in a 27 cm hanging basket.	P												F					
		P												F				
			P												F			
				P											F	F		
					P										F	F		
							P										F	

Cultivation Advice

Temperature has to be adapted to lower light conditions in January and February. Potting weeks in November or beginning of January are possible to have an early start with a cool overwintering . High light conditions influence the crop time very strongly.



Fertilization & Substrate

Important to keep EC levels in the range of 1.5-2.0. Measure the EC every week. If EC in the substrate is above 2.0, use clear water or fertilize with EC <1 until EC in the substrate is at the desired level. Increase the N:K relation to 1:1.5 after 3 weeks to improve the compact habit of the crop. As a substrate use a well permeable peat-based substrate having a pH from 5.0 to 6.0.



Diseases

Botrytis, Powery mildew, Pythium



Pests

Aphids, thrips, spidermites, leafminers, whiteflies



Light

Bidens have a high light requirement so bright cultivation and little shade.



PGR Applications

If needed Alar/B9 (daminozide), Cycocel, Cool morning, DIF.






Recommendations

Culture guideline at optimum average daily temperature 14–16°C:





Culture week	1	2	3	4	5	6	7	8	9
Handling	P						F	F	F
PGR			PGR						
Temperature D/N	16–18°C		12–14°C						
Light	adding light may promote flowering								
Shading	full sun								
Humidity	50–70%								
Moisture	3–2								
pH	5,5–5,8								
EC growing medium	1,0 mS/cm		1.25 mS/cm						
EC feeding in mS/cm	1,5 mS/cm		2,0 mS/cm						
Fertilizer	N : K 1 : 1		N : K 1 : 1,5						

Legend







Soil moisture level

	5 saturated: water is easily observed. When the substrate is touched, water moves out freely from top to bottom.
	4 wet: water is not easily observed. When the substrate is touched, there is very little movement of water from top to bottom.
	3 moist: the substrate is black but not glistening. When the substrate is touched, there is water, but virtually no water movement.
	2 medium: the substrate turns from dark to medium brown. There is no water movement when touched.
	1 dry: the substrate changed color to very light brown.








Culture stages Cuttings / Seeds

	callus development / germ1, radicle emergence
	root development / germ2, cotyledon expansion
	leaf development / plug bulking
	plug finishing / plug finishing










EC zones feeding mS/cm

	1 0,5–1,0 mS/cm
	2 1,0–1,5 mS/cm
	3 1,5–2,0 mS/cm
	4 2,0–2,5 mS/cm
	5 2,5–3,0 mS/cm
	6 3,0–3,5 mS/cm







EC zones growing medium mS/cm (Sonneveld 1:1,5)

	1 0,5–0,75 mS/cm
	2 0,75–1,0 mS/cm
	3 1,0–1,25 mS/cm
	4 1,25–1,5 mS/cm
	5 1,5–1,75 mS/cm
	6 1,75–2,0 mS/cm
	7 2,0–2,25 mS/cm




Temperature zones

	1 0–5°C
	2 5–8°C
	3 8–12°C
	4 12–14°C
	5 14–16°C
	6 16–18°C
	7 18–20°C
	8 20–22°C
	9 >22°C

Light zones

	1 total darkness
	2 short day <12 h/short day treatment
	3 shaded
	4 no-shading / natural light
	5 supplemental light > 14 h/long day treatment
	6 night interruption

Shading

	1 shading > 250 W/m2
	2 shading > 450 W/m2
	3 shading > 750 W/m2

ST	sticking URC	PC	plastic cover
RD	root development	L	lift cover
SC₀	sowing no Vermiculite cover	G	gapping
SC₁	sowing plus light Vermiculite cover	TP	transplanting
SC₂	sowing plus medium Vermiculite cover	T	ypl transplanting
SC₃	sowing plus thick Vermiculite cover	C	cover to protect from frost
RE	radicle emergence	PGR	PGR treatment (spray)
Cot	cotyledon	PD	PGR treatment (drench) or heavy spray
M₁	mist day and night	>	pinch
M₂	mist day – dry night	DB	disbud
W	end mist	P	potting
FC	fleece cover	S	spacing
PC	plastic cover	F	flowering
		LF	leaf removal and maintenance