



HUMULUS lupulus

Common Hops

Item No.: HG280

Also available as: Normal Seed Organic seed

Plant Description

Article Type	GOLD NUGGET SEED ®
Life Cycle	Perennial
Family	Cannabaceae
Origin	Europe, North America and Asia
Special Features	Attractive 'cone-like' seeds on female plants. Straw-colored flowering bracts. Plant on fence posts or trellises. Medicinal Plant of the Year 2007 in Germany.
Historical	Female plants are the source of hops, one of the principal ingredients of beer. Humulus is also related to cannabis.
Basic Colour	(green)
Flower Colour	straw-colored
Natural Flowering Period	July - September
Winter Hardiness Zones	Z4 - Z9
Foliage	opposite leaves with 3-5 lobes and bristly stems, green
Growth Habit	climbing
Height with Flowers	200 cm
Spacing between Plants	100 cm
Soil Requirements	sandy / average / loamy
Location	
Characteristics	medicinal plant / beneficial plant / culinary herb

Cultivation

Grams per 1000 seeds	2.7027 Gram
Seeds per Gram	370 (does not correspond to the number of plants!)



Sowing Rates/Trays	2 per cell
Plug tray recommended size(s)	72 / 128
Sowing Direction	(15) Rapidly germinating, keep seed in constant moisture (not wet) with temperatures of about +20°C [68°F]. Seeds must be covered thinly. Do not cover very small seeds, but tightly press into the earth. Keep in cooler conditions after germination occurs.

Scheduling

Best Sowing Date	Anytime (northern Hemisphere, Field condition)
Sowing to Germination	3 - 4 weeks
Germination to Transplant	3 - 4 weeks
Transplanting to Potting	6 - 8 weeks
Cutting back at Transplanting	Cut-back once to keep more compact.

Growing On

Container Size(s)	1-2 plugs per 11/12 cm (4 1/2") / 2-3 plugs per 15 cm (6")
Vernalization	There is no current research on vernalization but a prudent recommendation for any perennial would be 6-12 weeks (a few might need 15 weeks!) at an average daily temperature of 40°F (5°C). Exposure to cold may not be necessary for flowering but might improve quality.
Forcing	An obvious place to experiment - following vernalization - would be raising daytime temperatures to 60° - 65°F (15° - 17°C). Provide 16 hours of continuous lighting. During the short days of winter, provide a night interruption lighting of 4 hours between 10:00 p.m. and 2:00 a.m.
Fertilizer	Medium (150-200 ppm)