

# CASCADE

## VARIETY INFORMATION


[www.hopsteiner.com](http://www.hopsteiner.com)

### Genetic Origin

Open pollinated of a Fuggle seedling, itself derived from crosses between Fuggle and the Russian hop Serebrianka.

### Agronomic Aspects

#### Growing

Classification	High Alpha
Yield (kg/ha)	1,600 - 2,200
Maturity	Medium Early
Main growing country	USA
Acreage (ha)	2,896

#### Resistance against Diseases

Wilt diseases	Tolerant
Downy mildew	Resistant
Powdery mildew	Tolerant

### Chemical Ingredients

#### Bitter Components

Alpha acid %	4.5 - 7.0
Beta acid %	4.5 - 7.0
Cohumulone % rel.	33 - 40
Hard resins : alpha acid	0.27 - 0.56

#### Polyphenoles

Xanthohumol	0.1 - 0.4
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#### Aroma Components

Total oils (ml/100g)	0.8 - 1.5
Beta-caryophyllene: Humulene	0.32
Farnesene % of total oil	4.0 - 8.0
Linalool % of total oil	0.4 - 0.6
Linalool : Alpha acid	0.09 - 0.10

### Aroma Evaluation (Smell of Raw Hops, 0-5)

Aroma Specification	fruity, citrusy, herbal				
Fruity	■	■	■	■	■
Floral	■				
Citrusy	■	■	■	■	■
Spicy	■	■			
Earthy / resinous					
Herbal	■	■	■	■	■
Sugar-like					

### Substitutes

Brewhouse	Dry Hopping
Centennial, Lemondrop	Centennial, Lemondrop

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