

# LIBERTY

## VARIETY INFORMATION



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

### Genetic Origin

A triploid seedling of the German Hallertau variety.

### Agronomic Aspects

#### Growing

Classification	Aroma
Yield (kg/ha)	1,200 - 2,000
Maturity	Medium Early
Main growing country	USA
Acreage (ha)	88

#### Resistance against Diseases

Downy mildew	Tolerant
Powdery mildew	Susceptible

### Chemical Ingredients

#### Bitter Components

Alpha acid %	3.5 - 6.5
Beta acid %	3.0 - 4.0
Cohumulone % rel.	24 - 28

#### Polyphenoles

Xanthohumol	0.2 - 0.3
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#### Aroma Components

Total oils (ml/100g)	0.7 - 1.2
Beta-caryophyllene: Humulene	0.30
Farnesene % of total oil	0.0 - 1.0

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

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

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