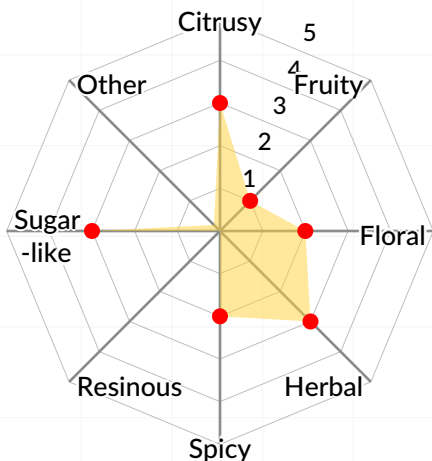
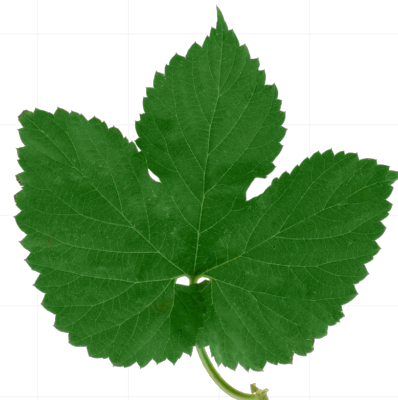


## AROMA EVALUATION



## VISUAL EVALUATION



## AROMA SPECIFICATION

orange, candied lime, fruity, floral

## GENETIC ORIGIN

Zeus x (98004 x USDA 19058m).

## AGRONOMIC ASPECTS

### GROWING

Yield (kg/ha)	3,000 - 3,500
Yield (lbs/acre)	2,700 - 3,150
Maturity	Very Late
Main Growing Country	USA
Acreage (ha)	255

### RESISTANCE AGAINST DISEASES

Downy mildew	Tolerant
Powdery mildew	Susceptible

## CHEMICAL INGREDIENTS

### BITTER COMPONENTS

Alpha-Acid %	14.0 - 17.0
Beta-Acid %	3.0 - 5.0
Co-Humulone % rel.	29 - 34
Hard Resins : Alpha-Acid	0.14 - 0.24

### POLYPHENOLS

Xanthohumol (EBC 7.7)	0.8 - 1.0
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### AROMA COMPONENTS

Total Oils (ml/100g)	1.6 - 2.4
Beta-Caryophyllene: Humulene	0.58
Farnesene % of total Oil	0.00 - 1.00
Linalool % of total Oil	0.2 - 0.3
Linalool: Alpha-Acid	0.01 - 0.02

## HOP ALTERNATIVES

### BREWHOUSE

Zeus, US Magnum, Nugget

### DRY HOPPING

Chinook, Centennial

Bravo is tried and true in the kettle, offering a polished and pleasant bitterness profile. Candied lime and sweet fruit notes emerge when used as a late hop or dry hop addition. Bravo is "the bittering hop of choice" among many brewers.

**Hop Highlights:**  
 14–17% Alpha  
 3–5% Beta  
 High Geraniol  
 Pleasant Bitterness

**HOPS HOTLINE**  
**800.339.8710**