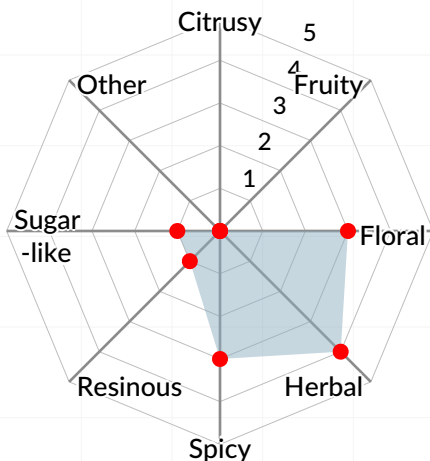


AROMA EVALUATION



VISUAL EVALUATION



AROMA SPECIFICATION

floral, herbal, tarragon, honey

GENETIC ORIGIN

A triploid seedling of the German Hallertauer variety; daughter of Hallertauer Mittelfrueh and sister to Liberty.

AGRONOMIC ASPECTS

GROWING

Yield (kg/ha)	1,700 - 2,200
Maturity	Medium Early
Main Growing Country	USA
Acreage (ha)	166

RESISTANCE AGAINST DISEASES

Downy mildew	Tolerant
Powdery mildew	Susceptible

CHEMICAL INGREDIENTS

BITTER COMPONENTS

Alpha-Acid %	4.0 - 8.0
Beta-Acid %	4.0 - 7.5
Co-Humulone % rel.	22 - 23
Hard Resins : Alpha-Acid	0.28 - 0.64

POLYPHENOLS

Xanthohumol (EBC 7.7)	0.1 - 0.3
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AROMA COMPONENTS

Total Oils (ml/100g)	1.0 - 1.7
Beta-Caryophyllene: Humulene	0.46
Farnesene % of total Oil	0.00 - 1.00
Linalool % of total Oil	0.5 - 0.7
Linalool: Alpha-Acid	0.09 - 0.13

HOP ALTERNATIVES

BREWHOUSE

Hallertauer Mittelfrueh, Crystal

DRY HOPPING

Hallertauer Mittelfrueh, Crystal

HOPS HOTLINE
800.339.8710