



VANGUARD

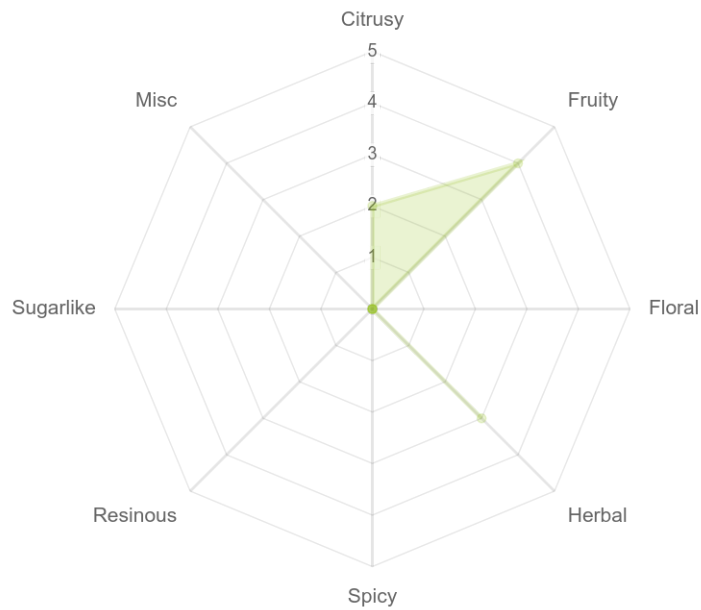
Spicy

Fruity

Herbal

Genetic Origin: A cross between a selected, Hallertauer daughter and a USAD selected, German aroma male; a triploid hop, similar to Hallertauer Mittelfrueh.

AROMA EVALUATION



Rated by the smell of raw hops on a 0-5 scale

AROMA DESCRIPTION

Tropical fruit, lemon, grass, tea

AGRONOMIC ASPECTS

GROWING

Yield (kg/ ha)	1500 - 1650
Maturity	early
Acreage (ha)	34
Main growing country	United States

RESISTANCE AGAINST DISEASES

Downey mildew	tolerant
Powdery mildew	tolerant

INGREDIENTS

BITTER COMPONENTS

Alpha acids %	4.0 - 6.0
Beta acids %	5.0 - 7.5
Co-humulone % rel.	14 - 16

POLYPHENOLS

Xanthohumol %	0.4 - 0.5
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AROMA COMPONENTS

Total oil (ml/100g)	0.8 - 1.2
Farnesene % rel. of total oil	0.00 - 1.00

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