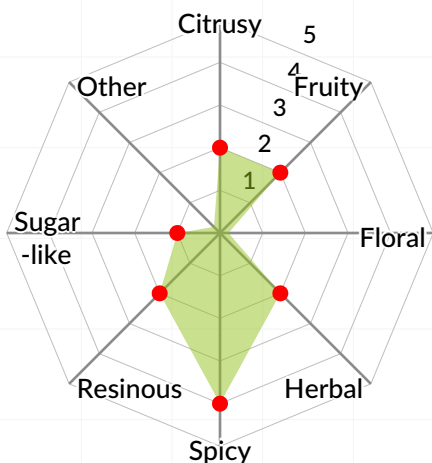


AROMA EVALUATION



AROMA SPECIFICATION

herbal, pepper, grass, aniseed

GENETIC ORIGIN

New variety bred in Huell

AGRONOMIC ASPECTS

GROWING

Yield (kg/ha)	1,500 - 2,200
Maturity	Medium Early
Main Growing Country	Germany
Acreage (ha)	141

RESISTANCE AGAINST DISEASES

Wilt diseases	Resistant
Downy mildew	Resistant
Powdery mildew	Resistant
Aphid	Tolerant

CHEMICAL INGREDIENTS

BITTER COMPONENTS

Alpha-Acid %	5.0 - 8.0
Beta-Acid %	3.5 - 5.5
Co-Humulone % rel.	15 - 17
Hard Resins : Alpha-Acid	0.17 - 0.69

POLYPHENOLS

Total Polyphenoles	3.7
Xanthohumol (EBC 7.7)	0.3 - 0.5

AROMA COMPONENTS

Total Oils (ml/100g)	0.8 - 1.3
Beta-Caryophyllene: Humulene	0.30 - 0.39
Farnesene % of total Oil	0.00 - 1.00
Linalool % of total Oil	1.0 - 1.5
Linalool: Alpha-Acid	0.19 - 0.20

VISUAL EVALUATION



HOP ALTERNATIVES

BREWHOUSE

Smaragd

DRY HOPPING

Smaragd

HOPS HOTLINE
800.339.8710