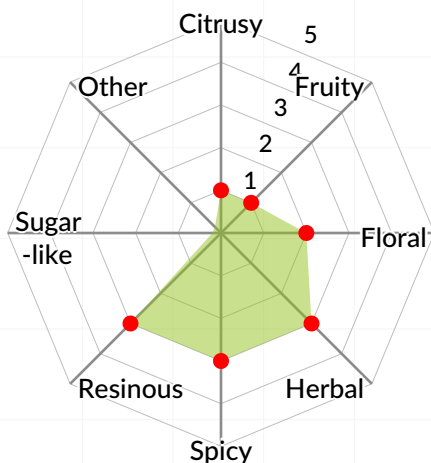


AROMA EVALUATION



VISUAL EVALUATION



AROMA SPECIFICATION

spicy, floral, pepper, black tea

GENETIC ORIGIN

An landrace variety bred in Germany.

AGRONOMIC ASPECTS

GROWING

Yield (kg/ha)	1,150 - 1,400
Maturity	Medium Early
Main Growing Country	Germany
Acreage (ha)	66

RESISTANCE AGAINST DISEASES

Wilt diseases	Resistant
Downy mildew	Susceptible
Powdery mildew	Resistant
Aphid	Susceptible

CHEMICAL INGREDIENTS

BITTER COMPONENTS

Alpha-Acid %	2.5 - 5.5
Beta-Acid %	3.0 - 5.0
Co-Humulone % rel.	22 - 28
Hard Resins : Alpha-Acid	0.24 - 1.11

POLYPHENOLS

Total Polyphenoles	5.2
Xanthohumol (EBC 7.7)	0.3 - 0.4

AROMA COMPONENTS

Total Oils (ml/100g)	0.4 - 0.9
Beta-Caryophyllene: Humulene	0.28 - 0.30
Farnesene % of total Oil	14.00 - 24.00
Linalool % of total Oil	0.4 - 0.9
Linalool: Alpha-Acid	0.15 - 0.16

HOP ALTERNATIVES

BREWHOUSE

Spalter, Saazer, Lubelski (Lublin)

DRY HOPPING

Spalter, Saazer, Lubelski (Lublin)

HOPS HOTLINE
800.339.8710