

SMARAGD

VARIETY INFORMATION



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Genetic Origin	
New variety bred in Huell	

Agronomic Aspects

Growing	
Classification	Aroma
Yield (kg/ha)	1,500 - 2,100
Maturity	Medium to Late
Main growing country	Germany
Acreage (ha)	47
Resistance against Diseases	
Wilt diseases	Resistant
Downy mildew	Resistant
Powdery mildew	Susceptible
Aphid	Tolerant

Chemical Ingredients

Bitter Components	
Alpha acid %	4.0 - 6.0
Beta acid %	3.5 - 5.5
Cohumulone % rel.	13 - 18
Hard resins : alpha acid	0.46 - 0.59
Polyphenoles	
Total polyphenoles	4.5
Xanthohumol	0.2 - 0.3
Aroma Components	
Total oils (ml/100g)	0.4 - 0.8
Beta-caryophyllene: Humulene	0.30 - 0.33
Farnesene % of total oil	0.0 - 1.0
Linalool % of total oil	0.8 - 1.4
Linalool : Alpha acid	0.22 - 0.23

Aroma Evaluation (Smell of Raw Hops, 0-5)

Aroma Specification	spicy, aniseed, tobacco, clove				
Fruity	0.5	0	0	0	0
Floral	0	0	0	0	0
Citrusy	0.5	0	0	0	0
Spicy	1.5	1.5	1.5	1.5	0
Earthy / resinous	1.5	1.5	1.5	1.5	0
Herbal	1.5	1.5	1.5	1.5	1.5
Sugar-like	0	0	0	0	0

Substitutes

Brewhouse	Dry Hopping
Opal	Opal

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COMMITTED TO THE BREWER