

Hallertauer Magnum

Hallertauer Magnum was developed by the Hop Research Center in Hüll. It exhibits both a high yield and a vigorous growth habit. This high alpha variety is the daughter of US Galena and was approved in 1993. Due to its high bittering power, Hallertauer Magnum has quickly gained in importance and, as such, is primarily added at the beginning of the boil in the brewhouse. Beers brewed with Magnum exhibit a harmonious bitterness of medium intensity along with a slightly floral and spicy, herbal hop aroma.



Mother

Galena

Father

75/005/003

Hallertauer Magnum

Analytical Values

Bitter Substances

α -acid [EBC 7.4]	13.0 % w/w
β -acid [EBC 7.7]	6.5 % w/w
β/α [EBC 7.7]	0.5
Co-Humulone [EBC 7.7]	27 % rel.

Aroma Substances

Total Oil [EBC 7.10]	2.40 ml/100 g
Myrcene [GC-FID]	754 mg/100 g
β -Caryophyllene [GC-FID]	124 mg/100 g
Farnesen [GC-FID]	2 mg/100 g
α -Humulene [GC-FID]	426 mg/100 g
Σ Hydrocarbon fraction [GC-FID]	1387 mg/100 g
Linalool [GC-FID]	6 mg/100 g
Geraniol [GC-FID]	7 mg/100 g
Geranyl acetate [GC-FID]	1 mg/100 g
2-methylbutyl 2-methylpropanoate [GC-FID]	46 mg/100 g
Σ Oxygen fraction [GC-FID]	189 mg/100 g
Σ Monoterpene alcohols and esters [GC-FID]	20 mg/100 g
Σ Propanoate [GC-FID]	60 mg/100 g
Σ unsaturated esters [GC-FID]	40 mg/100 g
Σ Esters [GC-FID]	115 mg/100 g
Σ Sesquiterpene alcohols [GC-FID]	23 mg/100 g
Σ Ketone [GC-FID]	27 mg/100 g
Σ Hydrocarbon fraction + Oxygen fraction [GC-FID]	1575 mg/100 g

Polyphenols

Polyphenols [EBC 7.14]	2.6 % w/w
Σ Low-molecular polyphenols [EBC 7.7]	3244 mg/l
Xanthohumol [EBC 7.7]	0.47 % w/w

Bitter

Hallertauer Magnum



Usage in Brewing

Often Used

	rarely	medium	frequently
Boil – Beginning			<div></div>
Boil – Midpoint		<div></div>	
Boil – End & Whirlpool	<div></div>		
Dry Hopping		<div></div>	

Recommended Beer Styles

	rarely	medium	frequently
Lager			<div></div>
Ale			<div></div>
Heavily dry-hopped beers		<div></div>	
Dark Beer		<div></div>	
Wheat Beer		<div></div>	
Belgian Origin Styles		<div></div>	

Agronomic Aspects

	low		medium	high	
Climate Tolerance			<div></div>		
	low	medium	good	very good	
Plant Health	<div></div>				
	early	medium early	medium	medium late	late
Maturity				<div></div>	
	low		medium	high	
Storage Stability				<div></div>	