Herkules

Herkules is a high alpha variety developed by the Hop Research Center in Hüll. It was approved as a variety in 2006. In just a few years, Herkules has become well-established on the international market as more than a mere bitter variety. Agronomically, in terms of its yield and bitter potential, it possesses considerable advantages but is also notable for its outstanding brewing traits. Herkules hops make up the largest share of hops grown in Germany by area, amounting to approximately 6,720 ha (in 2020). It is also the most cultivated hop worldwide. Herkules is primarily used to pro-



Mother	Father
Hallertau Taurus	93/009/041

Herkules

duce bitterness and is therefore added at the beginning of the boil in the brewhouse. It lends beer a harmonious bitterness without being excessive. In good crop years, Herkules can also possess intensely spicy hop and fruity notes.

Analytical Values

Bitter Substances

α-acid [EBC 7.4]	16.0 % w/w
β-acid [EBC 7.7]	4.8 % w/w
β/α [EBC 7.7]	0.3
Co-Humulone [EBC 7.7]	36 % rel.

Aroma Substances

Total Oil [EBC 7.10]	1.70 ml/100 g
Myrcene [GC-FID]	462 mg/100 g
β-Caryophyllene [GC-FID]	90 mg/100 g
Farnesen [GC-FID]	4 mg/100 g
α-Humulene [GC-FID]	320 mg/100 g
∑ Hydrocarbon fraction [GC-FID]	948 mg/100 g
Linalool [GC-FID]	6 mg/100 g
Geraniol [GC-FID]	5 mg/100 g
Geranyl acetate [GC-FID]	0 mg/100 g
2-methylbutyl 2-methylpropanoate [GC-FID]	91 mg/100 g
∑ Oxygen fraction [GC-FID]	214 mg/100 g
∑ Monoterpene alcohols and esters [GC-FID]	23 mg/100 g
∑ Propanoate [GC-FID]	115 mg/100 g
∑ unsaturated esters [GC-FID]	20 mg/100 g
∑ Esters [GC-FID]	161 mg/100 g
∑ Sesquiterpene alcohols [GC-FID]	13 mg/100 g
∑ Ketone [GC-FID]	28 mg/100 g
∑ Hydrocarbon fraction + Oxygen fraction [GC-FID]	1162 mg/100 g

Polyphenols

Polyphenols [EBC 7.14]	3.8 % w/w
∑ Low-molecular polyphenols [EBC 7.7]	4818 mg/l
Xanthohumol [EBC 7.7]	0.80 % w/w





Herkules



Usage in Brewing

Often Used

	rarely	medium	frequently
Boil – Beginning			
Boil – Midpoint			
Boil – End & Whirlpool			
Dry Hopping			

Recommended Beer Styles

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

Agronomic Aspects

igronomic Aspecis	•		low	medium	high
Climate Tolerance					
		low	medium	good	very good
Plant Health					
	early	medium early	medium	medium late	late
Maturity					
			low	medium	high
Storage Stability					

