BEGLEITURKUNDE

Alegenteill obt Groed der Verordnung (EWG) Nr. 1695.74 vom 26.77 1974. Gelindert durch Verordnung (EVG) Nr. 1170/77 vom 17. 5.1977.

DEUTSCHER

Perle

NR BALLEN/BALLOT

EWIGHT INCKO (BRUTTO

Aufbereite

Steadiline later / Autolicit

發出社



Perle

Characteristics

Bitterstoffe	
alpha-acids	4.0 - 9.0 % *
beta-acids	2.5 – 4.5 % *
cohumulone	29 – 35 % [×]
colupulone	48 – 60 % [×]
Polyphenols	
total content	3.0 - 5.0 % *
xanthohumol	0.4 - 0.5 % *
Aroma substances	R
total oil	0.5 – 1.5 % • •
myrcene	20 - 35 % [×] •
linalool	0.2 – 0.6 % [×] •
beta-caryophyllene	10 – 20 % [×]
aromadendrene	< 0.2 % [×]
humulene	35 – 55 % [×]
farnesene	<1% × 🛛
beta-selinene	0.2 – 0.7 % [×] S
alpha-selinene	0.2 - 0.7 % ×

Fine aroma variety

- average to higher bitter value
- good aroma
- good storage stability

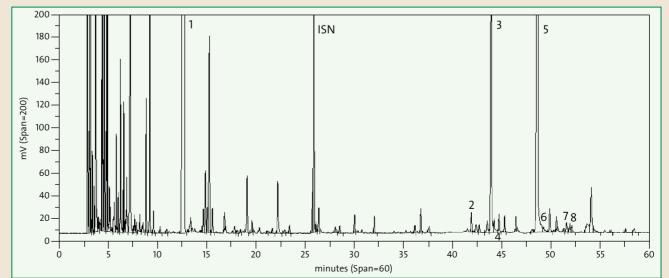
Resistance to disease:

• wilt	good to very good	
 downy mildew 	good to very good	
 powdery mildew 	average to low	

Ripening time	medium late
Storage stability	good
Average yield	1,800 kg/ha

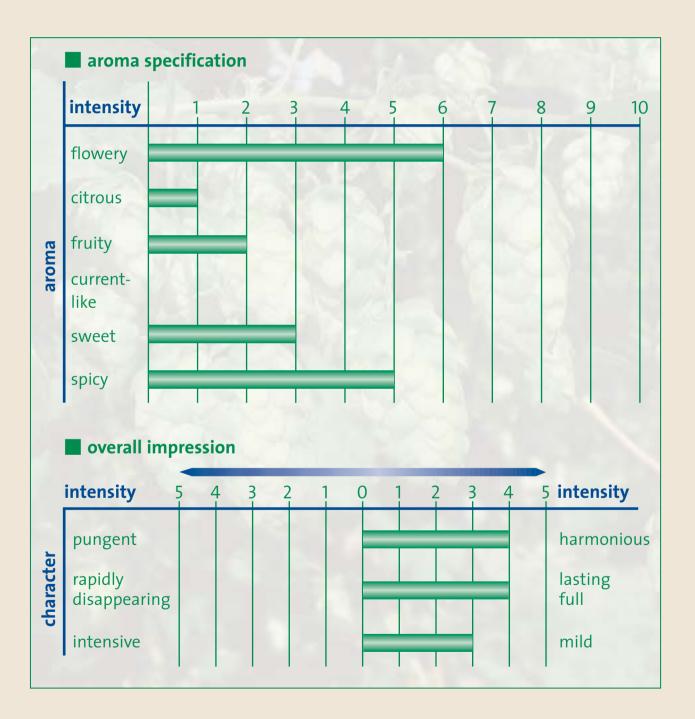
^(*)weight-% - ^(x)% relative - ^(·)ml/100g hops

Headspace Gaschromatogramme



1 = myrcene · ISN = internal standard · 2 = linalool · 3 = beta-caryophyllene · 4 = aromadendrene · 5 = humulene · 6 = farnesene 7 = beta-selinene · 8 = alpha-selinene

Perle Evaluation





The aroma variety Perle is a product of the Hop Research Centre in Hüll with good resistance characteristics, high yields and very good production characteristics. This aroma variety was registered as a variety in 1978. In the 1990 s it became very popular with the hop-growers.



Brewing trial: Perle

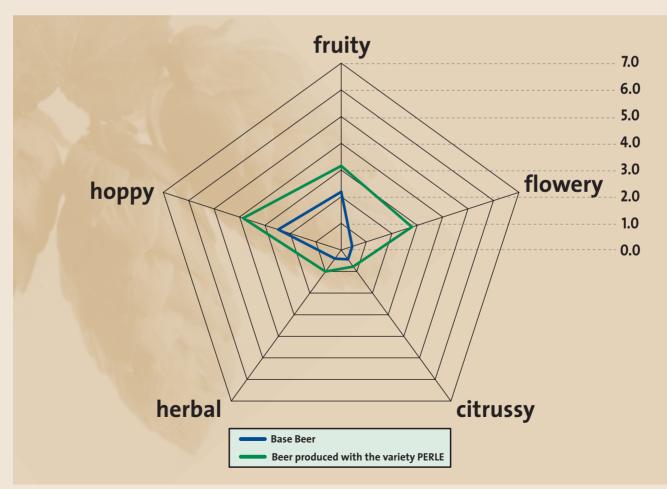


1. Beer Analysis

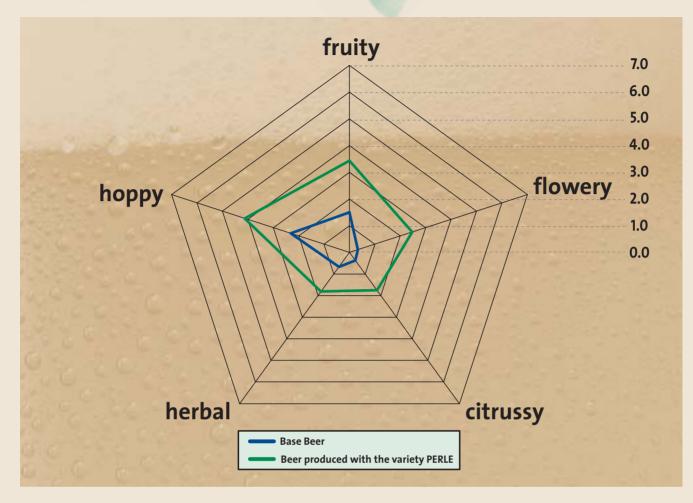
co-isohumulone	8.6 mg/l	iso-xanthohumol	0.66 mg/l
n-isohumulone	10.2 mg/l	xanthohumol	nd*
ad-isohumulone	3.4 mg/l	linalool	22 µg/l
Σ isohumulones	22.2 mg/l	total polyphenols	190 mg/l
bitterness	24 EBC-BU		

* nd: not detectable

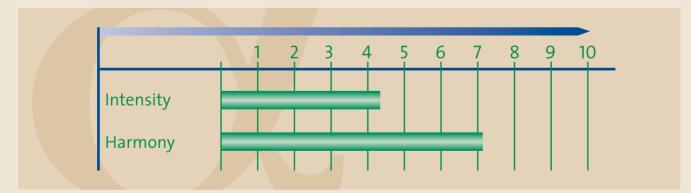
2. Sensory Evaluation "Hop Aroma" (Smell)



3. Sensory Evaluation "Hop Flavour" (Taste)



4. Sensory Evaluation of the Bitterness



The variety Perle imparts the beer a harmonic, not too intensive bitterness. The aroma is delicate, both in smell and taste it inclines towards a hoppy tang as well as fruity and flowery flavours.