

BEGLEITURKUNDEN

ausgestellt von der Brauerei und Brauereimuseum der
Brauerei Siegfried Herkules aus Wittenberg

DEUTSCHE SIEGFELDHOFFEN



Herkules

KÖRPER	100	100
W. BLÄTTER/BLAETZ	100	100
GEWICHT IN KG (BRUTTO)	100	100
ADLERATE%	100	100
KÖRPER	100	100

abdruckfähig



Herkules

Characteristics

Bitter substances

alpha-acids	12.0 – 17.0 % *
beta-acids	4.0 – 5.5 % *
cohumulone	32 – 38 % ^x
colupulone	52 – 58 % ^x

High-alpha variety

- very high bitter value
- average aroma
- good storage stability

Polyphenols

total content	3.0 – 4.0 % *
xanthohumol	ca. 0.7 % *

Aroma substances

total oil	1.6 – 2.4 % •
myrcene	30 – 50 % ^x
linalool	0.3 – 0.8 % ^x
beta-caryophyllene	7 – 12 % ^x
aromadendrene	< 0.2 % ^x
humulene	30 – 45 % ^x
farnesene	< 1 % ^x
beta-selinene	0.3 – 0.8 % ^x
alpha-selinene	0.3 – 0.8 % ^x

Resistance to disease:

- | | |
|------------------|------|
| • wilt | good |
| • downy mildew | good |
| • powdery mildew | good |

Ripening time

very late

Storage stability

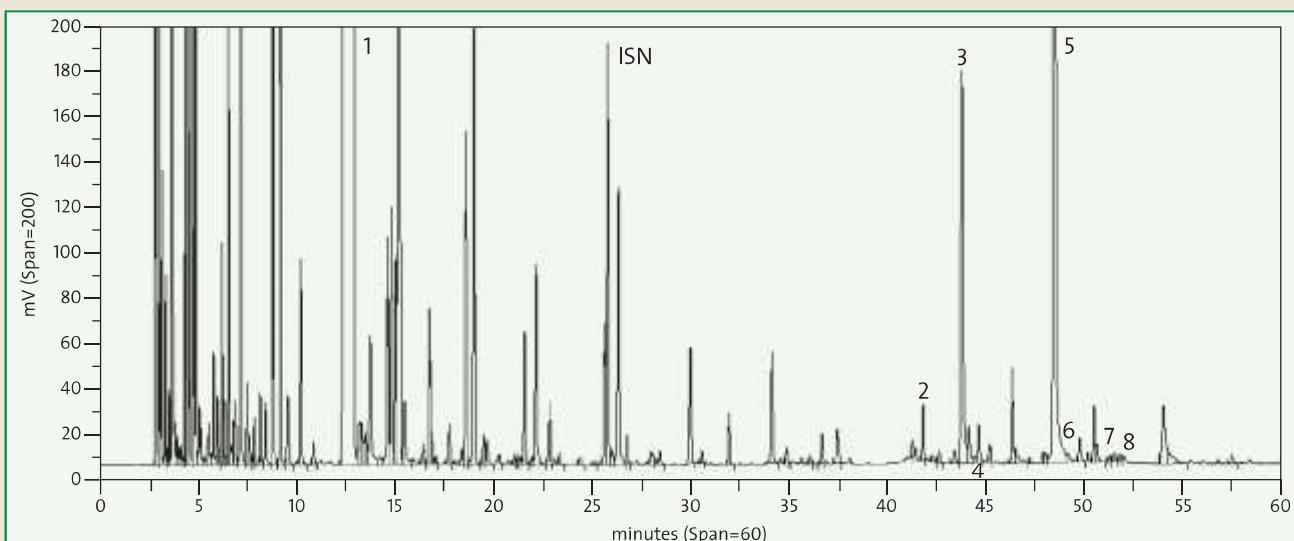
good

Average yield

2,300 kg/ha

(*) weight-% – (x) % relative – (•) ml/100g hops

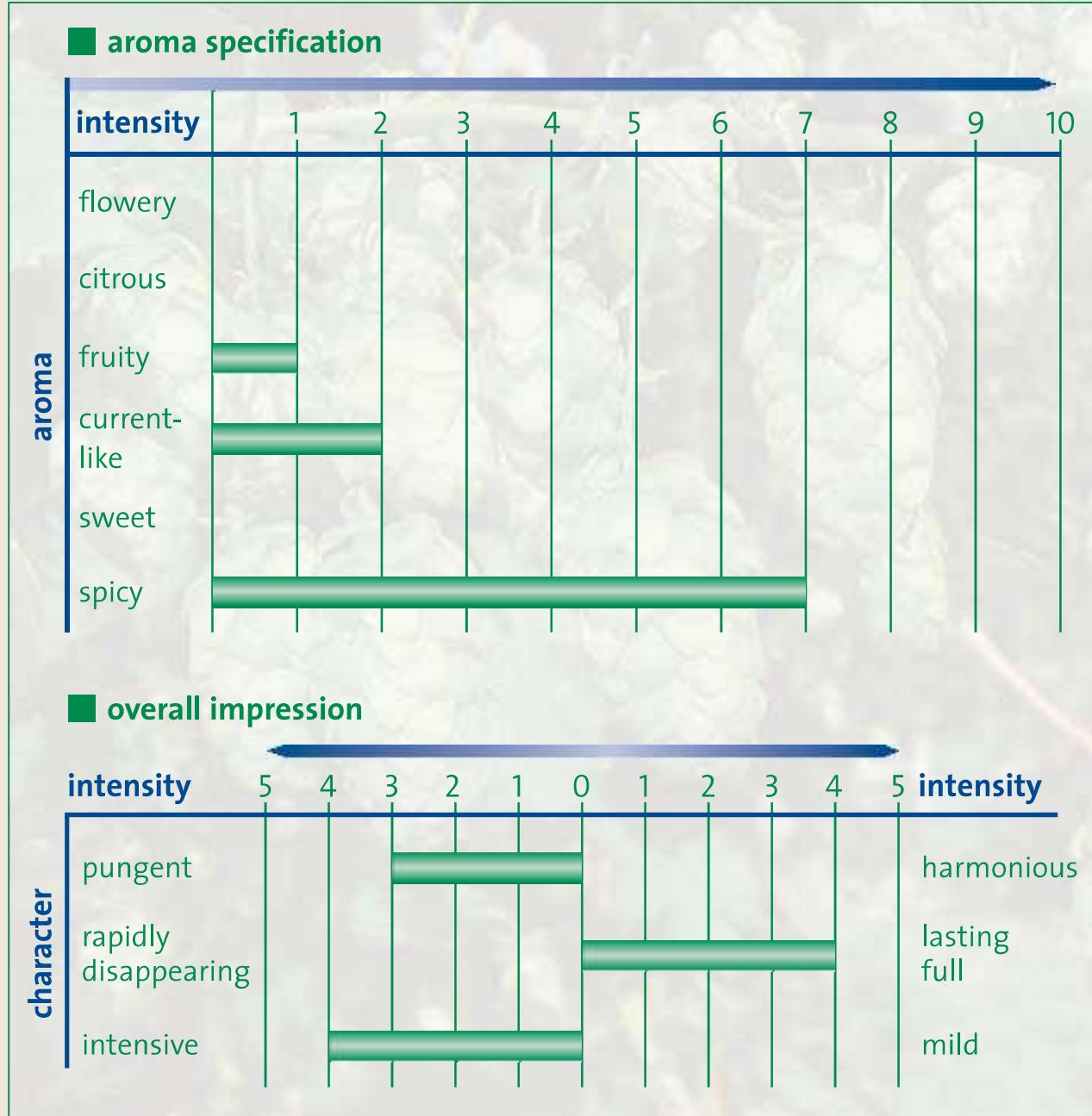
Headspace Gaschromatogramme

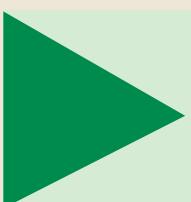


1 = myrcene · ISN = internal standard · 2 = linalool · 3 = beta-caryophyllene · 4 = aromadendrene · 5 = humulene · 6 = farnesene
7 = beta-selinene · 8 = alpha-selinene

Herkules

Evaluation



 Herkules is a very high-yielding breeding line from the Hop Research Centre in Hüll with very high alpha-acid content.



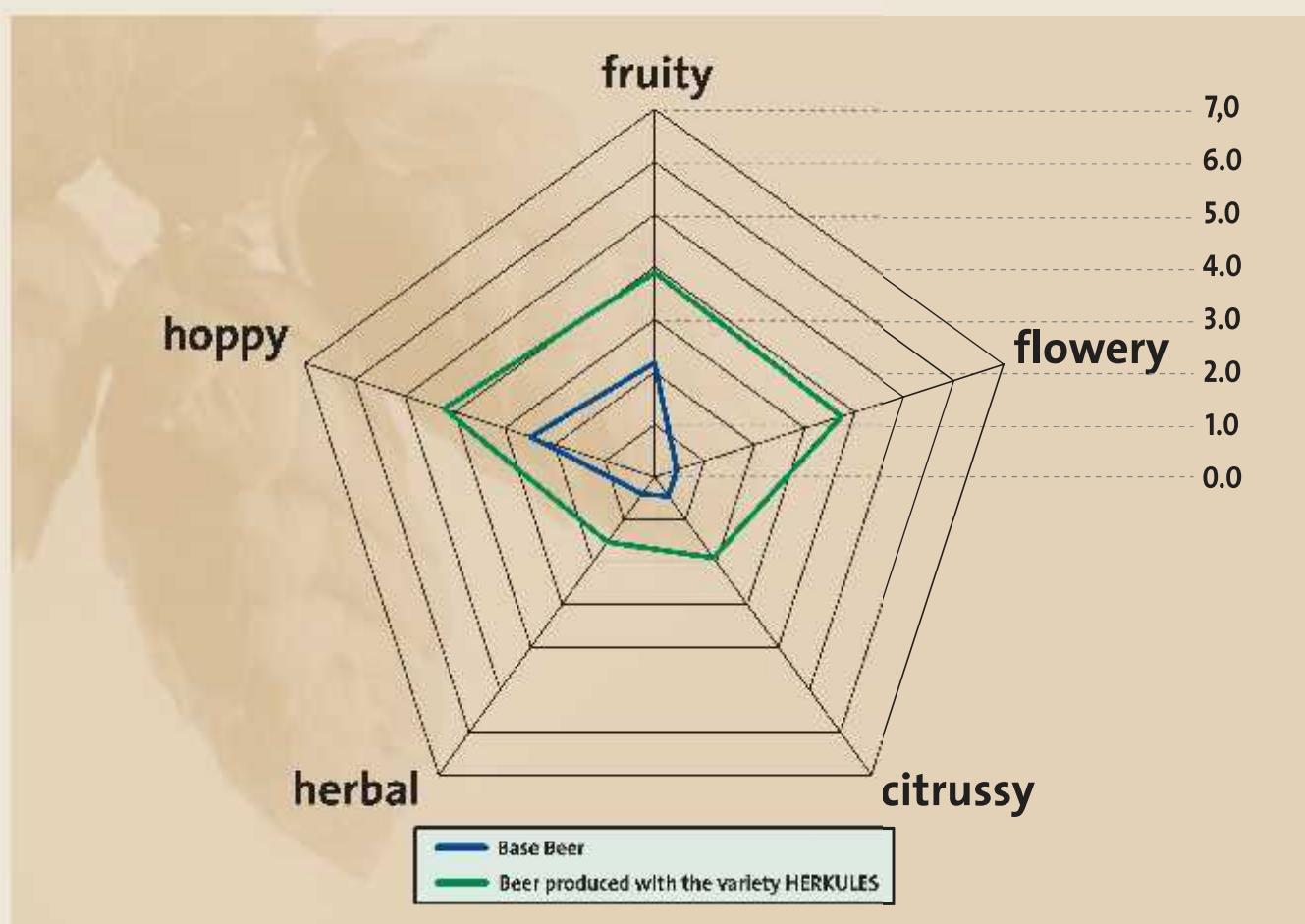
Brewing trial: Herkules



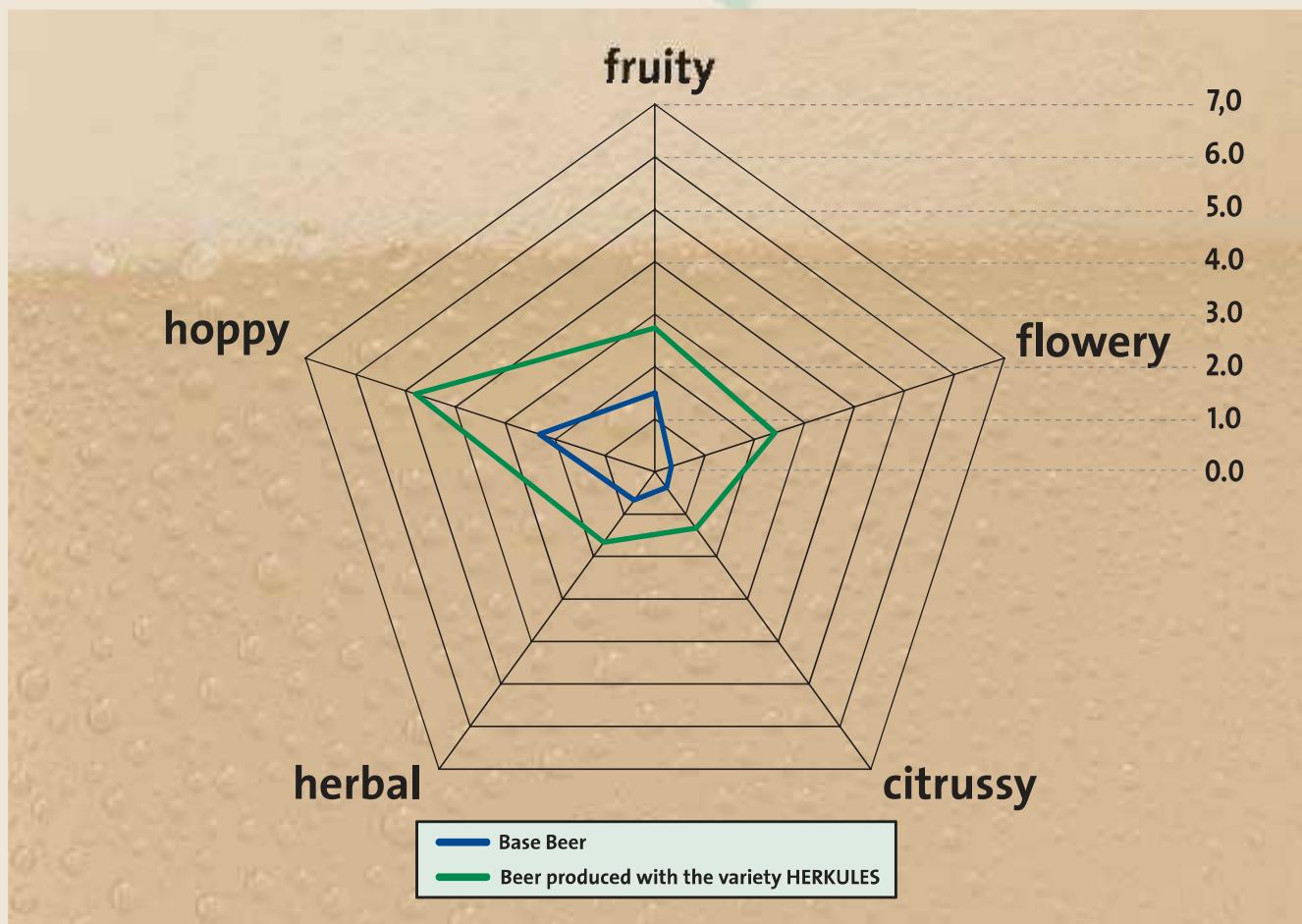
1. Beer Analysis

co-isohumulone	9.0 mg/l	iso-xanthohumol	0.49 mg/l
n-isohumulone	9.8 mg/l	xanthohumol	0.03 mg/l
ad-isohumulone	2.6 mg/l	linalool	23 µg/l
Σ isohumulones	21.4 mg/l	total polyphenols	165 mg/l
bitterness	22 EBC-BU		

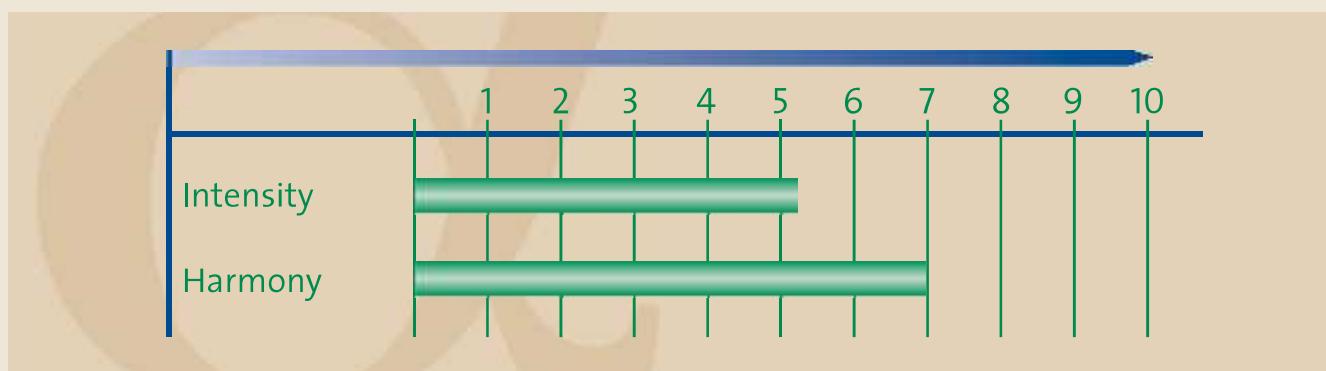
2. Sensory Evaluation "Hop Aroma" (Smell)



3. Sensory Evaluation “Hop Flavour” (Taste)



4. Sensory Evaluation of the Bitterness



The variety Herkules gives the beer a harmonic, not too strong bitterness. It imparts the various aroma impressions evenly and not too distinctly. Only in the taste the hoppy tang slightly prevails compared with the other impressions.