GfH
Wir forschen Hopfen

LfL

TITAN

Sustainable supply security meets highest bitter quality

Pedigree

Titan

Mother
Polaris
Hüll-bred variety

Father
Hüll breeding stock
Hop Research Center Hüll

Agronomic characteristics

CLIMATE TOLERANCE

low — medium — **high**

DISEASE RESISTANCE

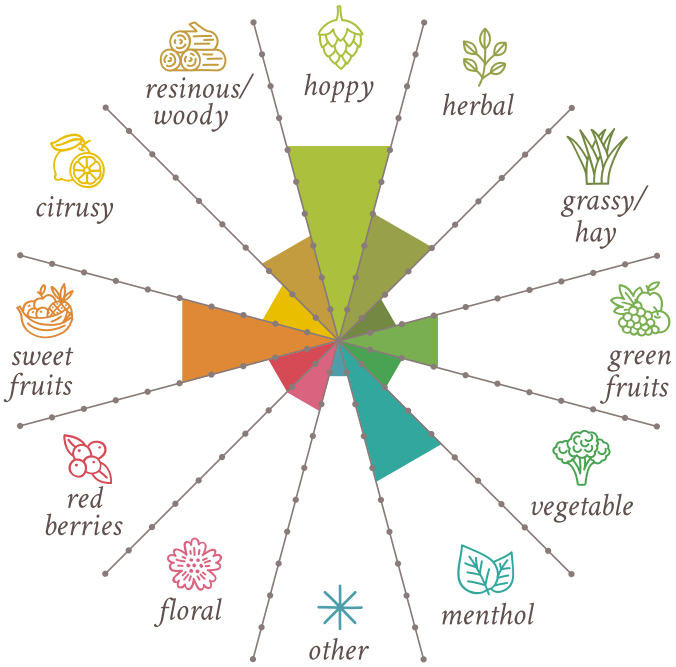
low — medium — **good** — very good

MATURATION

early — medium early — **medium** — medium late — late

YIELD POTENTIAL (kg/ha)	
ALPHA ACIDS (%)	17.5
Cohumulone (rel.% of alpha acids)	22
TOTAL OIL (ml/100g)	3.2
Farnesene content (ml/100g)	<0,5
Linalool (ml/100g)	15

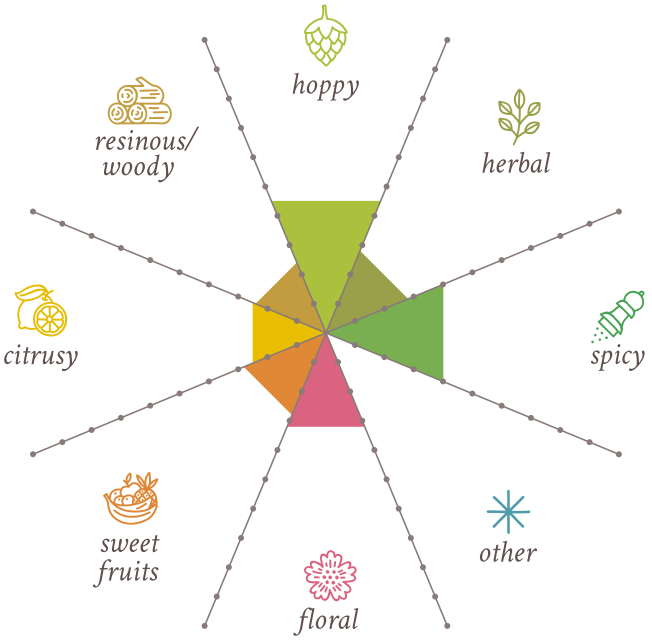
Aroma impressions of raw hops



The idea behind the classic crossing that led to TITAN was to further improve the excellent traits of Hercules (grandmother) through targeted combination with other good strains from the Hüll gene pool. Its mother Polaris achieves the highest alpha acid contents worldwide and shows only minor alpha fluctuations even under extreme climate conditions. Furthermore, Polaris has a very good crowne health, which has fully and permanently proven itself even under the difficult conditions in the Elbe-Saale growing region. The grandfather inherits a novel powdery mildew resistance to TITAN and also improves the tolerance to cone infestation with peronospora.

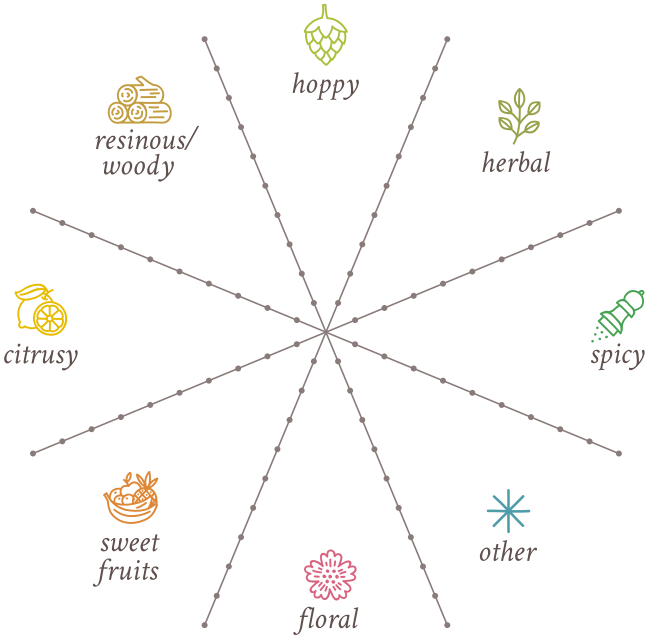
TITAN is characterised by a beautiful cylindrical vine with an even cone hanging. Due to the relatively small leaves and only medium foliage thickness, plant protection measures are facilitated. Thus, a good wetting of the entire hop vine can be achieved with a reduced amount of water. In addition to the improved resistance properties, which make some plant protection measures superfluous, this growth habit contributes to a further reduction in the use of plant protection agents in hop production. In the raw hops, TITAN is dominated by beautiful hoppy basic notes, aromas of green fruits and citrus notes are somewhat more discreet compared to Herkules. Despite a significantly higher total oil content compared to Herkules, the aroma of TITAN is pleasant and very balanced. Classic hop-typical notes dominate, supported by sweet fruits and some menthol. During the brew tests, a particularly high bitter quality was found with different beer styles and brewing methods.

Aroma in beer



Despite the comparatively high total oil content, TITAN brings a discreet, classic and hop-typical aroma to beer. However, the main focus for a high alpha variety is on the bitter quality: the intensity curve of the perceptible bitterness is almost identical to that of Hercules. After a steep rise, the bitterness unfolds its full intensity in the main drink and then falls away continuously in a pleasantly mild manner, without following or lingering. TITAN thus stands for a solid and high-quality bitterness, and lays a classic aroma foundation that can be expanded as desired depending on the beer style.

Dry-Hop Aroma



QUALITY OF BITTERNESS

medium | high | very high