hallertauer lager

- Gravity 12.4 BLG
- ABV **5** %
- IBU **15**
- SRM **3.6**
- Style Standard American Lager

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 66 C, Time 25 min
 Temp 73 C, Time 45 min
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 15 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 25 min at 66C
- Keep mash 45 min at 73C
- Keep mash 5 min at 78C
- Sparge using 15.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4 kg (80%)	80 %	4
Grain	Bestmalz Carmel Pils	0.5 kg <i>(10%)</i>	75 %	5
Grain	Rice, Flaked	0.5 kg <i>(10%)</i>	70 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tradition	30 g	20 min	5.5 %
Boil	Tradition	30 g	5 min	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	11.5 g	Fermentis