Full Aroma Hops

- Gravity 9.8 BLG
- ABV ----
- IBU **43**
- SRM **3.8**
- Style Blonde Ale

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 65 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12 liter(s)
- Total mash volume 16 liter(s)

Steps

- Temp 61 C, Time 15 min
 Temp 71 C, Time 45 min
- Temp 76 C, Time 10 min

Mash step by step

- Heat up 12 liter(s) of strike water to 67.8C
- Add grains
- Keep mash 15 min at 61C
- Keep mash 45 min at 71C
- Keep mash 10 min at 76C
- Sparge using 17.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	4 kg (100%)	81 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	60 min	13.5 %
Boil	Lublin (Lubelski)	30 g	30 min	4.5 %
Boil	Lublin (Lubelski)	15 g	5 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale