Pollager

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU **54**
- SRM **3.9**

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 12.6 liter(s)
- Total mash volume 16.8 liter(s)

Steps

- Temp 53 C, Time 10 min
 Temp 66 C, Time 50 min
 Temp 76 C, Time 10 min

Mash step by step

- Heat up 12.6 liter(s) of strike water to 58.5C
- Add grains
- Keep mash 10 min at 53C
- Keep mash 50 min at 66C
- Keep mash 10 min at 76C
- Sparge using 16.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	3.6 kg <i>(85.7%)</i>	81 %	4
Grain	Monachijski	0.6 kg <i>(14.3%)</i>	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	marynka	50 g	60 min	8.5 %
Boil	lubelski	25 g	10 min	3.8 %

Yeasts

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