Pierwsze piwo - bitter

- · Gravity 11 BLG
- ABV 4.4 %
- IBU **35**
- SRM **6.7**
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 12.7 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 6.6 liter(s)
- Total mash volume 8.8 liter(s)

Steps

- Temp 66 C, Time 45 min
 Temp 72 C, Time 15 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 6.6 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 45 min at 66C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 8.3 liter(s) of 76C water or to achieve 12.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (90.9%)	80 %	5
Grain	Weyermann - Carawheat	0.2 kg <i>(9.1%)</i>	77 %	97

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	25 g	60 min	5.1 %
Aroma (end of boil)	Lublin (Lubelski)	15 g	10 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis