Polskie Ale #4

- Gravity 13.1 BLG
- ABV **5.3** %
- IBU 27
- SRM **5**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 30.8 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp **52** C, Time **25** min Temp **65** C, Time **30** min Temp **72** C, Time **30** min
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up 16.5 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 25 min at 52C
- Keep mash 30 min at 65C
- Keep mash 30 min at 72C
- Keep mash 10 min at 76C
- Sparge using 19.8 liter(s) of 76C water or to achieve 30.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	3.5 kg <i>(63.6%)</i>	82 %	4
Grain	Viking Munich Malt	1.5 kg <i>(27.3%)</i>	78 %	18
Grain	Viking Wheat Malt	0.5 kg (9.1%)	83 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	25 g	50 min	10 %
Aroma (end of boil)	Lublin (Lubelski)	30 g	10 min	4 %
Aroma (end of boil)	Lublin (Lubelski)	30 g	5 min	3.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
kveik WLP518	Ale	Slant	40 ml	

Extras

Туре	Name	Amount	Use for	Time
- 71				

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Fining	Mech Irlandzki	l ላ ካ a	Boil	I 10 min
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