A Pale Ale #kveik

- Gravity 11 BLG
- ABV 4.4 %
- IBU **36**
- SRM **4.1**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 27.7 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 15.4 liter(s)
- Total mash volume 19.8 liter(s)

Steps

- Temp **66 C**, Time **50 min** Temp **74 C**, Time **15 min**
- Temp **77 C**, Time **5 min**

Mash step by step

- Heat up 15.4 liter(s) of strike water to 72.6C
- Add grains
- Keep mash 50 min at 66C
- Keep mash 15 min at 74C
- Keep mash 5 min at 77C
- Sparge using 16.7 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.2 kg (72.7%)	85 %	7
Grain	Słód Pilsner® 2,5-4,5 EBC Weyermann	1 kg <i>(22.7%)</i>	80 %	4
Grain	Weyermann - Carapils	0.2 kg (4.5%)	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	18 g	50 min	13.5 %
Boil	Cascade	20 g	10 min	6 %
Aroma (end of boil)	Mosaic	25 g	5 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM53 Voss kveik	Ale	Liquid	210 ml	FM

Extras

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	4.2 g	Mash	10 min