ipa

- Gravity 15.7 BLG
- ABV **6.6** %
- IBU **34**
- SRM **4.6**
- Style American IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 1.7 liter(s) / kg
- Mash size 11 liter(s)
- Total mash volume 17.5 liter(s)

Steps

- Temp **68 C**, Time **50 min** Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up 11 liter(s) of strike water to 82.2C
- Add grains
- Keep mash 50 min at 68C
- Keep mash 20 min at 72C
- Keep mash 0 min at 78C
- Sparge using 21.9 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg <i>(69.2%)</i>	80 %	5
Grain	Pszeniczny	1.5 kg <i>(23.1%)</i>	85 %	4
Grain	Płatki owsiane	0.5 kg (7.7%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Citra	15 g	15 min	12 %
Whirlpool	Citra	15 g	20 min	12 %
Whirlpool	Amarillo	15 g	20 min	9.5 %
Whirlpool	Mosaic	15 g	20 min	10 %
Dry Hop	Citra	20 g	2 day(s)	12 %
Dry Hop	Mosaic	20 g	2 day(s)	10 %
Dry Hop	Amarillo	20 g	2 day(s)	9.5 %
Boil	Magnum	10 g	60 min	13.5 %

Yeasts

Name Type	Form	Amount	Laboratory
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