IPA#4

- Gravity 16.8 BLG
- ABV 7.1 %
- IBU **50**
- SRM **9.4**
- Style American IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 3 %
- Size with trub loss 20.6 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 24.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 2.7 liter(s) / kg
- Mash size 18.2 liter(s)
- Total mash volume 25 liter(s)

Steps

- Temp 64 C, Time 90 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 18.2 liter(s) of strike water to 72.2C
- Add grains
- Keep mash 90 min at 64C
- Keep mash 1 min at 78C
- Sparge using 13 liter(s) of 76C water or to achieve 24.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) Bel	5 kg <i>(74.1%)</i>	80 %	6
Grain	Wheat, Flaked	1 kg <i>(14.8%)</i>	77 %	4
Grain	Carawheat (GR)	0.75 kg <i>(11.1%)</i>	68 %	79

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	12 g	60 min	13.2 %
Boil	Simcoe	10 g	40 min	13.2 %
Boil	Simcoe	10 g	20 min	13.2 %
Boil	Simcoe	10 g	5 min	13.2 %
Boil	Simcoe	10 g	0 min	13.2 %
Boil	Lemon drop	12 g	60 min	4.6 %
Boil	Lemon drop	10 g	40 min	4.6 %
Boil	Lemon drop	10 g	20 min	4.6 %
Boil	Lemon drop	10 g	5 min	4.6 %
Boil	Lemon drop	10 g	0 min	4.6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Liquid	240 ml	Fermentum Mobile

Extras

Туре	Name	Amount	Use for	Time
Flavor	Zest pomarańcza	42 g	Boil	10 min
Flavor	Zest grejpfrut	50 g	Boil	10 min