rye IPA

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **39**
- SRM 4.8
- Style American Wheat or Rye Beer

Batch size

- Expected quantity of finished beer 39 liter(s)
- Trub loss 8 %
- Size with trub loss 46 liter(s)
- · Boil time 60 min
- Evaporation rate 11 %/h
- Boil size 56.7 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 27.6 liter(s)
- Total mash volume 36.8 liter(s)

Steps

• Temp 68 C, Time 60 min

Mash step by step

- Heat up 27.6 liter(s) of strike water to 76C
- · Add grains
- Keep mash 60 min at 68C
- Sparge using 38.3 liter(s) of 76C water or to achieve 56.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilsner (2 Row) Ger	7 kg (76%)	81 %	4
Grain	Rye Malt	1.5 kg <i>(16.3%)</i>	63 %	10
Grain	Oats, Flaked	0.31 kg <i>(3.4%)</i>	80 %	2
Grain	Caramel/Crystal Malt - 40L	0.4 kg <i>(4.3%)</i>	74 %	79

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	41 g	60 min	13.5 %
Aroma (end of boil)	Simcoe	30 g	15 min	13.2 %
Whirlpool	Simcoe	100 g	0 min	13.2 %
Dry Hop	Simcoe	150 g	4 day(s)	13.2 %
Dry Hop	Simcoe	100 g	2 day(s)	13.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	22 g	Fermentis

Extras

Type Name Amount Use for Time

Fining	protofloc	5 a	Boil	15 min
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