Black IPA

- Gravity 13.6 BLG
- ABV 5.6 %
- IBU **61**
- SRM **29.1**
- Style Black IPA

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 10 %
- Size with trub loss 13.2 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 15.8 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 10.5 liter(s)
- Total mash volume 14 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 76 C, Time 1 min

Mash step by step

- Heat up 10.5 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 1 min at 76C
- Sparge using 8.8 liter(s) of 76C water or to achieve 15.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.6 kg <i>(74.3%)</i>	80 %	5
Grain	Rye, Flaked	0.27 kg <i>(7.7%)</i>	78.3 %	4
Grain	Fawcett - Crystal	0.32 kg <i>(9.1%)</i>	70 %	160
Grain	Weyermann - Chocolate Wheat	0.17 kg <i>(4.9%)</i>	74 %	788
Grain	Carafa III	0.14 kg <i>(4%)</i>	70 %	1034

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	5 g	60 min	11 %
Boil	Centennial	14 g	45 min	10.5 %
Boil	Centennial	14 g	30 min	10.5 %
Boil	Cascade	14 g	15 min	6 %
Boil	Cascade	14 g	5 min	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirfloc	1.25 g	Boil	15 min