Black IPA

- Gravity 16.1 BLG
- ABV 6.8 %
- IBU **67**
- SRM **36**
- Style Black IPA

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 13.2 liter(s)
- · Boil time 60 min
- Evaporation rate 12 %/h
- Boil size 16.8 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.4 liter(s)
- Total mash volume 17.9 liter(s)

Steps

- Temp 55 C, Time 0 min
 Temp 64 C, Time 60 min
 Temp 70 C, Time 15 min
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 13.4 liter(s) of strike water to 60.9C
- Add grains
- Keep mash 0 min at 55C
- Keep mash 60 min at 64C
- Keep mash 15 min at 70C
- Keep mash 5 min at 76C
- Sparge using 7.9 liter(s) of 76C water or to achieve 16.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	3.8 kg <i>(84.8%)</i>	82 %	4
Grain	Biscuit Malt	0.23 kg <i>(5.1%)</i>	79 %	45
Grain	Carafa III	0.45 kg <i>(10%)</i>	70 %	1034

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	15 g	60 min	11 %
Aroma (end of boil)	Mosaic	35 g	10 min	10 %
Aroma (end of boil)	Simcoe	35 g	10 min	13.2 %
Whirlpool	Mosaic	25 g	0 min	10 %
Whirlpool	Simcoe	25 g	0 min	13.2 %
Dry Hop	Mosaic	40 g	3 day(s)	10 %
Dry Hop	Simcoe	40 g	3 day(s)	13.2 %
Dry Hop	Cascade	20 g	3 day(s)	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Hazy Daze	Ale	Slant	150 ml	