Black IPA

- Gravity 16.1 BLG
- ABV 6.8 %
- IBU **48**
- SRM **35.3**
- Style Black IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 20.1 liter(s)
- Total mash volume 26.8 liter(s)

Steps

- Temp 62 C, Time 60 min
 Temp 70 C, Time 20 min

Mash step by step

- Heat up 20.1 liter(s) of strike water to 69C
- Add grains
- Keep mash 60 min at 62C
- Keep mash 20 min at 70C
- Sparge using 11.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	6 kg (89.6%)	80 %	7
Grain	Barwiący	0.7 kg <i>(10.4%)</i>	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	60 min	13.3 %
Boil	Cascade	20 g	30 min	6.8 %
Boil	Cascade	30 g	15 min	6.8 %
Aroma (end of boil)	Equinox	50 g	5 min	16.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11 g	Danstar