Black IPA

- Gravity 15 BLG
- ABV **6.2** %
- IBU **33**
- SRM **31.4**
- Style Black IPA

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.5 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.9 liter(s)
- Total mash volume 23.8 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 76 C, Time 0 min

Mash step by step

- Heat up 17.9 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 0 min at 76C
- Sparge using 14.6 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	3 kg <i>(48.4%)</i>	80 %	5
Grain	Pilzneński	1.5 kg <i>(24.2%)</i>	81 %	4
Grain	Thomas Fawcett - Crystal	0.7 kg <i>(11.3%)</i>	70 %	160
Grain	Carafa II	0.5 kg (8.1%)	70 %	1000
Grain	Biscuit Malt	0.25 kg <i>(4%)</i>	79 %	45
Sugar	Cukier	0.25 kg <i>(4%)</i>	100 %	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	20 g	50 min	10.5 %
Boil	Cascade	20 g	30 min	6 %
Boil	Willamette	20 g	15 min	5 %
Dry Hop	Centennial	30 g	2 day(s)	10.5 %
Dry Hop	Cascade	30 g	2 day(s)	6 %
Dry Hop	Willamette	30 g	2 day(s)	5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
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