#17 Black IPA

- Gravity 15.4 BLG
- ABV 6.5 %
- IBU **56**
- SRM **32.2**
- Style Black IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 3 %
- Size with trub loss 23.2 liter(s)
- Boil time 60 min
- Evaporation rate 12 %/h
- Boil size 28.7 liter(s)

Mash information

- Mash efficiency 83 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 23.9 liter(s)
- Total mash volume 30.7 liter(s)

Steps

- Temp **64 C**, Time **45 min** Temp **71 C**, Time **25 min**
- Temp **79** C, Time **5** min

Mash step by step

- Heat up 23.9 liter(s) of strike water to 70.3C
- Add grains
- Keep mash 45 min at 64C
- Keep mash 25 min at 71C
- Keep mash 5 min at 79C
- Sparge using 11.6 liter(s) of 76C water or to achieve 28.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4.6 kg <i>(67.3%)</i>	81 %	4
Grain	Oats, Flaked	0.74 kg <i>(10.8%)</i>	74 %	2
Grain	Wheat, Flaked	0.5 kg <i>(7.3%)</i>	74 %	4
Grain	Cara-Pils/Dextrine	0.5 kg <i>(7.3%)</i>	72 %	4
Grain	Weyermann - Dehusked Carafa III	0.49 kg <i>(7.2%)</i>	1 %	1400
Na mashout				

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	50 g	60 min	10 %
Boil	Simcoe	10 g	10 min	12.6 %
Boil	Mosaic	10 g	10 min	12.8 %
Whirlpool	Galaxy	50 g	1 min	16 %
Whirlpool	Simcoe	50 g	1 min	12.6 %
Whirlpool	Mosaic	60 g	1 min	12.8 %
Dry Hop	Mosaic	60 g	2 day(s)	12.8 %

Dry Hop	Amarillo	50 g	2 day(s)	9.5 %
Dry Hop	Galaxy	50 g	2 day(s)	15 %
Dry Hop	Simcoe	50 g	2 day(s)	13.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP090 - San Diego Super Yeast	Ale	Slant	200 ml	White Labs