Earl Grey Black IPA

- Gravity 13.8 BLG
- ABV **5.7** %
- IBU **32**
- SRM **19.3**
- Style English 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 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.4 liter(s)
- Total mash volume 23.2 liter(s)

Steps

- Temp 64 C, Time 40 min
 Temp 72 C, Time 20 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 17.4 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 40 min at 64C
- Keep mash 20 min at 72C
- Keep mash 10 min at 78C
- Sparge using 13.7 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	4.5 kg <i>(77.6%)</i>	81 %	5
Grain	Weyermann - Pale Wheat Malt	1 kg (17.2%)	85 %	5
Grain	Weyermann - Carafa I	0.3 kg <i>(5.2%)</i>	70 %	900

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10 %
Dry Hop	Marynka	20 g	4 day(s)	10 %
Aroma (end of boil)	Marynka	30 g	10 min	10 %
Dry Hop	Lublin (Lubelski)	30 g	4 day(s)	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	17 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	4 g	Boil	10 min
Herb	Herbata czarna	50 g	Secondary	4 day(s)