

Najtmer

- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **70**
- SRM **27.8**
- 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 **19.5 liter(s)**
- Total mash volume **26 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **19.5 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **76C**
- Sparge using **13.5 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (61.5%)	81 %	4
Grain	Briess - Pale Ale Malt	1 kg (15.4%)	80 %	7
Grain	Weyermann - Carapils	0.5 kg (7.7%)	78 %	4
Grain	Weyermann - Dehusked Carafa III	0.5 kg (7.7%)	70 %	1024
Grain	Pszeniczny	0.5 kg (7.7%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	30 g	60 min	13.2 %
Whirlpool	Simcoe	50 g	20 min	13.2 %
Whirlpool	Mosaic	50 g	20 min	10 %
Dry Hop	Simcoe	70 g	2 day(s)	13.2 %
Dry Hop	Mosaic	50 g	2 day(s)	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
WLP007 - Dry English Ale Yeast	Ale	Slant	200 ml	White Labs