

Black IPA II

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **44**
- SRM **33.3**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **13.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **11.4 liter(s)**
- Total mash volume **14.6 liter(s)**

Steps

- Temp **64 C**, Time **45 min**
- Temp **74 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **11.4 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **74C**
- Keep mash **5 min** at **78C**
- Sparge using **5.1 liter(s)** of **76C** water or to achieve **13.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.4 kg (73.8%)	80 %	5
Grain	Pszeniczny	0.25 kg (7.7%)	85 %	4
Grain	Barwiący	0.25 kg (7.7%)	55 %	985
Grain	płatki jęczmienne	0.2 kg (6.2%)	60 %	4
Grain	Strzegom Karmel 600	0.15 kg (4.6%)	68 %	601

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	5 g	30 min	10.1 %
Boil	Sabro	5 g	30 min	14 %
Boil	Cascade	5 g	30 min	6.5 %
Boil	Amarillo	5 g	15 min	10.1 %
Boil	Sabro	5 g	15 min	14 %
Boil	Cascade	5 g	15 min	6.5 %
Whirlpool	Amarillo	5 g	15 min	10.5 %
Whirlpool	Sabro	5 g	15 min	14 %

Whirlpool	Cascade	5 g	15 min	6.5 %
Dry Hop	Amarillo	35 g	3 day(s)	10.1 %
Dry Hop	Sabro	35 g	3 day(s)	14 %
Dry Hop	Cascade	35 g	3 day(s)	6.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	1000 ml	---

Notes

- Starter z gęstwy po IPA.
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