

## Black chocolate IPA

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- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **72**
- SRM **57.1**
- Style **Black IPA**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 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)**

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Platki owsiane	0.5 kg (7.7%)	60 %	3
Grain	Monachijski	0.5 kg (7.7%)	80 %	16
Grain	Castle Pale Ale	3.5 kg (53.8%)	80 %	8
Grain	Chocolate Malt (UK)	1.5 kg (23.1%)	73 %	887
Grain	Black (Patent) Malt	0.5 kg (7.7%)	55 %	985

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	35 g	60 min	15.5 %
Boil	Mosaic	30 g	30 min	10 %
Boil	Amarillo	20 g	5 min	9.5 %
Whirlpool	Amarillo	30 g	0 min	9.5 %
Dry Hop	Lemon drop	50 g	3 day(s)	4.6 %

### Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	11.5 g	---