

Black Ipa

- Gravity **17.2 BLG**
- ABV ---
- IBU **56**
- SRM ---

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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.1 liter(s)**
- Total mash volume **25.4 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (78.6%)	--- %	---
Grain	Monachijski	0.5 kg (7.9%)	--- %	---
Grain	Weyermann - Carared	0.5 kg (7.9%)	--- %	---
Grain	Weyermann - Carafa II	0.36 kg (5.7%)	--- %	---

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Waimea	20 g	50 min	17.4 %
Boil	Citra	20 g	15 min	13.5 %
Boil	Cascade	20 g	10 min	7.7 %
Boil	Palisade	20 g	5 min	6.1 %