

Robust Porter

- Gravity **16.6 BLG**
- ABV ---
- IBU **48**
- SRM **56.8**
- Style **Robust Porter**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.2 liter(s)**
- Total mash volume **21.6 liter(s)**

Steps

- Temp **68 C**, Time **70 min**

Mash step by step

- Heat up **16.2 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Sparge using **8.2 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.5 kg (46.3%)	80 %	5
Grain	Monachijski	1.5 kg (27.8%)	80 %	16
Grain	Karmelowy PL	0.5 kg (9.3%)	75 %	300
Grain	Caraaroma	0.5 kg (9.3%)	78 %	400
Grain	Strzegom Czekoladowy ciemny	0.2 kg (3.7%)	68 %	1200
Grain	Płatki owsiane	0.2 kg (3.7%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	50 g	60 min	4.5 %
Boil	Chinook	10 g	60 min	11.2 %
Aroma (end of boil)	Lublin (Lubelski)	10 g	10 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Fermentis s04	Ale	Dry	11.5 g	fermentis

Notes

- ee
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