Porter Świąteczny

- Gravity 19.4 BLG
- ABV 8.36 %
- IBU 17.03
- SRM 40
- Style Baltic Porter

Batch size

- Expected quantity of finished beer 15.3 liter(s)
- Trub loss 0 %
- Size with trub loss 15.3 liter(s)
- · Boil time 30 min
- Evaporation rate 22 %/h
- Boil size 18.8 liter(s)

Mash information

- Mash efficiency 69.5 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.94 liter(s)
- Total mash volume 23.92 liter(s)

Steps

• Temp 68 C, Time 40 min

Mash step by step

- Heat up 17.94 liter(s) of strike water to 76C
- · Add grains
- Keep mash 40 min at 68C
- Sparge using **6.8 liter(s)** of **76C** water or to achieve **18.8 liter(s)** of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Munich Light	2 kg	78.26 %	15
Grain	Vienna	1.33 kg	80.43 %	8
Grain	Pilsner	1.33 kg	78.26 %	3
Grain	Caramunich Type 1	0.67 kg	72.83 %	92
Grain	CaraAroma	0.33 kg	78.26 %	372
Grain	Chocolate Wheat	0.16 kg	75.65 %	1106
Grain	Carafa III	0.16 kg	69.57 %	1426

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	13.3 g	30 min	10 %
Boil	Marynka	6.66 g	5 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
LALBREW® VOSS KVEIK ALE YEAST		Dry	73.7 g	Lallemand

Extras

Type Name Amount Use for Time

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Water Agent	Citric acid	1	Mash	l 0 min
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