Ostatnie BW-20 11.06.2024r

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU 43
- SRM **5.6**
- Style Extra Special/Strong Bitter (English Pale Ale)

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 25 %/h
- Boil size 32.3 liter(s)

Mash information

- Mash efficiency 83 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 16.6 liter(s)
- Total mash volume 21.4 liter(s)

Steps

- Temp **63 C**, Time **20 min** Temp **67 C**, Time **40 min**
- Temp 73 C, Time 10 min

Mash step by step

- Heat up 16.6 liter(s) of strike water to 69.2C
- Add grains
- Keep mash 20 min at 63C
- Keep mash 40 min at 67C
- Keep mash 10 min at 73C
- Sparge using 20.5 liter(s) of 76C water or to achieve 32.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	2.5 kg <i>(52.6%)</i>	80 %	5
Grain	Pszeniczny	0.5 kg <i>(10.5%)</i>	85 %	4
Grain	Smoked Malt	1 kg <i>(21.1%)</i>	80 %	18
Grain	Monachijski typ II	0.75 kg <i>(15.8%)</i>	79 %	22

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galaxy	20 g	60 min	17 %
Aroma (end of boil)	Oktawia	30 g	10 min	7 %
Aroma (end of boil)	Styrian Dragon	10 g	5 min	8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Fermentis SafAle BW-20	Ale	Slant	200 ml	

Extras

Type	Name	Amount	Use for	Time
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l Fining	Whirlfloc T	l 1 a	l Boil	l 5 min
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