Niskoalkoholowy Ale

- Gravity 7.8 BLG
- ABV ----
- IBU 40
- SRM **6.4**
- Style American Brown Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 25.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29 liter(s)

Mash information

- Mash efficiency 65 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 20.7 liter(s)

Steps

- Temp **50 C**, Time **10 min** Temp **72 C**, Time **60 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 53.8C
- Add grains
- Keep mash 10 min at 50C
- Keep mash 60 min at 72C
- Keep mash 10 min at 78C
- Sparge using 16.6 liter(s) of 76C water or to achieve 29 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.5 kg <i>(60.5%)</i>	80 %	5
Grain	Briess - Pilsen Malt	1.25 kg <i>(30.2%)</i>	80.5 %	2
Grain	Karmelowy Jasny 30EBC	0.333 kg (8.1%)	75 %	30
Grain	Czekoladowy	0.05 kg (1.2%)	60 %	788

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	40 g	10 min	13 %
Boil	Cascade PL	40 g	10 min	5.2 %
Boil	Citra	20 g	10 min	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale k-97	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
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l Flavor	limbir	l 10 a	Boil	l 30 min
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