Bezglutenowe ciemne 201 nowa receptura

- Gravity 8.3 BLG
- ABV 3.2 %
- IBU **31**
- SRM ---
- Style American Stout

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21.2 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.5 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 18.7 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp 45 C, Time 20 min
 Temp 72 C, Time 30 min

Mash step by step

- Heat up 18.7 liter(s) of strike water to 48.6C
- Add grains
- Keep mash 20 min at 45C
- Keep mash 30 min at 72C
- Sparge using 12.1 liter(s) of 76C water or to achieve 25.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Słód gryczany	4 kg <i>(74.9%)</i>	48 %	
Grain	Grys kukurydziany	0.67 kg <i>(12.5%)</i>	80 %	
Grain	Proso	0.67 kg <i>(12.5%)</i>	51 %	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	3.33 g	60 min	13.3 %
Boil	Simcoe	3.33 g	45 min	13.3 %
Boil	Simcoe	6.67 g	30 min	13.3 %
Boil	Simcoe	13.33 g	15 min	13.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.47 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Spice	Pędy sosny	13.33 g	Mash	30 min
Spice	Pędy sosny	13.33 g	Boil	5 min

Spice Po	edy sosny	33.33 a	Secondary	4 day(s)