

Bezglutenowe ciemne 3l nowa receptura

- Gravity **8 BLG**
- ABV ---
- IBU **31**
- SRM ---
- Style **American Stout**

Batch size

- Expected quantity of finished beer **3 liter(s)**
- Trub loss **5 %**
- Size with trub loss **3.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **3.9 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **2.8 liter(s)**
- Total mash volume **3.6 liter(s)**

Steps

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

Mash step by step

- Heat up **2.8 liter(s)** of strike water to **48.6C**
- Add grains
- Keep mash **20 min** at **45C**
- Keep mash **30 min** at **72C**
- Sparge using **1.9 liter(s)** of **76C** water or to achieve **3.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód gryczany	0.6 kg (75%)	48 %	---
Grain	Grys kukurydziany	0.1 kg (12.5%)	80 %	---
Grain	Proso	0.1 kg (12.5%)	51 %	---

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	0.5 g	60 min	13.3 %
Boil	Simcoe	0.5 g	45 min	13.3 %
Boil	Simcoe	1 g	30 min	13.3 %
Boil	Simcoe	2 g	15 min	13.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	1.72 g	Safale

Extras

Type	Name	Amount	Use for	Time
Spice	Pędy sosny	2 g	Boil	5 min
Spice	Pędy sosny	5 g	Secondary	4 day(s)

Flavor	Kawa Brazil Fazenda Sertãozinho	10 g	Secondary	4 day(s)
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