

FES z miętą #1 - Browar na Wyżynie

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **31**
- SRM **41.1**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **6 %**
- Size with trub loss **17 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.6 liter(s)**
- Total mash volume **20.8 liter(s)**

Steps

- Temp **69 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **15.6 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **45 min** at **69C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **8.7 liter(s)** of **76C** water or to achieve **19.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	pale ale Viking Malt	4 kg (76.9%)	79 %	8
Grain	jęczmień prażony Viking Malt	0.3 kg (5.8%)	1 %	1000
Grain	czekoladowy ciemny Viking Malt	0.3 kg (5.8%)	1 %	1200
Grain	płatki żytnie	0.6 kg (11.5%)	50 %	1

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka (PL) - granulát	30 g	45 min	8.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	500 ml	---

Extras

Type	Name	Amount	Use for	Time
Herb	Mięta zielona	8 g	Mash	0 min

Herb	Mięta zielona	16 g	Boil	0 min
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Notes

- Założenie 0.5g mięty na 1l (smak).
Założenie 1g mięty na 1l (aromat)
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