

NE IPA #1

- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **41**
- SRM **6.6**
- Style **American 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 **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21.9 liter(s)**
- Total mash volume **28.1 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **21.9 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **13.4 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (80%)	80 %	5
Grain	Platki owsiane	0.5 kg (8%)	85 %	3
Grain	Rice, Flaked	0.5 kg (8%)	70 %	2
Grain	Crystal 150	0.25 kg (4%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	25 g	60 min	15.5 %
Boil	Citra	25 g	5 min	12 %
Whirlpool	Simcoe	50 g	0 min	13.2 %
Whirlpool	Sabro	50 g	0 min	15 %
Dry Hop	Sabro	50 g	2 day(s)	15 %
Dry Hop	Simcoe	50 g	2 day(s)	13.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

Notes

- Hop stand 77C
łyżeczka chlorku wapnia
Nagazowanie 2,3
Witamina C do rozlewu
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