

Tea American Pale Ale

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **43**
- SRM **6.7**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.9 liter(s)**
- Total mash volume **21.2 liter(s)**

Steps

- Temp **64 C**, Time **30 min**
- Temp **71 C**, Time **30 min**

Mash step by step

- Heat up **15.9 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **71C**
- Sparge using **14.5 liter(s)** of **76C** water or to achieve **25.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód Pilsner® 2,5-4,5 EBC Weyermann	4.5 kg (84.9%)	80 %	4
Grain	Carabelge	0.5 kg (9.4%)	80 %	30
Grain	Caramunich® typ I	0.3 kg (5.7%)	73 %	80

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galena	30 g	60 min	12 %
Boil	Centennial	20 g	5 min	10.5 %
Dry Hop	Citra	50 g	14 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Safale

Extras

Type	Name	Amount	Use for	Time
Flavor	laktoza	50 g	Boil	60 min
Flavor	herbata Gentle Grey	80 g	Secondary	14 day(s)

Fining	mech irlandzki	4 g	Boil	4 min
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