

Topaz Single Hop Red Ale

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **33**
- SRM **14.1**
- Style **Irish Red Ale**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **22.4 liter(s)**

Steps

- Temp **67 C**, Time **90 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **16.8 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **90 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **11.6 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.8 kg (85.9%)	80 %	5
Grain	Karmelowy Czerwony	0.5 kg (8.9%)	75 %	59
Grain	Strzegom Karmel 300	0.25 kg (4.5%)	70 %	299
Grain	Barwiący	0.038 kg (0.7%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Topaz	7 g	60 min	15 %
Boil	Topaz	18 g	10 min	15 %
Boil	Topaz	25 g	5 min	15 %
Boil	Topaz	20 g	2 min	15 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	200 ml	Fermentis