

Irish Red Ale

- Gravity **9.8 BLG**
- ABV **3.8 %**
- IBU **17**
- SRM **9.4**
- Style **Irish Red Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4.5 liter(s) / kg**
- Mash size **16.7 liter(s)**
- Total mash volume **20.5 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **15 min**

Mash step by step

- Heat up **16.7 liter(s)** of strike water to **73.3C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **15 min** at **72C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **24.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	3 kg (80.6%)	81 %	6
Grain	Karmelowy Czerwony 50 EBC	0.5 kg (13.4%)	75 %	59
Grain	Strzegom Karmel 150	0.2 kg (5.4%)	75 %	150
Grain	Jęczmień palony	0.02 kg (0.5%)	55 %	1000

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	30 g	60 min	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	20 g	---