

red x

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **22**
- SRM **11.4**
- Style **Irish Red Ale**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **8 %**
- Size with trub loss **23.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **28.1 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **18.1 liter(s)** of **76C** water or to achieve **28.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Bestmalz Red X	5 kg (100%)	79 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Brewers Gold	30 g	60 min	4.5 %
Boil	Hersbrucker	10 g	15 min	4.3 %
Boil	Saaz (Czech) aromat	10 g	15 min	4.5 %
Boil	Saaz (Czech) aromat	15 g	5 min	4.5 %
Aroma (end of boil)	Hersbrucker	20 g	10 min	4.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM30 Bohemska rapsodia	Lager	Liquid	30 ml	Fermentum Mobile

Notes

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