### Irish Red Ale

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU 27
- SRM **10.3**
- 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 25.3 liter(s)

# **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.4 liter(s)
- Total mash volume 19.2 liter(s)

#### **Steps**

- Temp 64 C, Time 45 min
  Temp 72 C, Time 15 min
- Temp **78 C**, Time **5 min**

# Mash step by step

- Heat up 14.4 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 45 min at 64C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 15.7 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	2.5 kg <i>(52.1%)</i>	82 %	4
Grain	Viking Pale Ale malt	1 kg <i>(20.8%)</i>	80 %	5
Grain	Strzegom Monachijski typ II	0.5 kg <i>(10.4%)</i>	79 %	22
Grain	Rahr - Red Wheat Malt	0.5 kg <i>(10.4%)</i>	85 %	89
Grain	Strzegom Karmel 150	0.3 kg (6.3%)	75 %	150

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	10 g	50 min	7 %
Boil	Challenger	10 g	40 min	7 %
Boil	lunga	20 g	15 min	11 %
Boil	Mech irlandzki	5 g	15 min	1 %

### **Yeasts**

Name Typ	/pe	Form	Amount	Laboratory
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FM13 Irlandzkie Ciemności	Ale	Liquid	30 ml	Fermentum Mobile
Cleffillosci				