

#16 Irish Red Ale

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **23**
- SRM **6.7**
- Style **Irish Red Ale**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **0 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.4 liter(s)**

Mash information

- Mash efficiency **83.5 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **52 C**, Time **20 min**
- Temp **66 C**, Time **40 min**
- Temp **72 C**, Time **30 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **20 min** at **52C**
- Keep mash **40 min** at **66C**
- Keep mash **30 min** at **72C**
- Sparge using **15.4 liter(s)** of **76C** water or to achieve **25.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------------|----------------|-------|-----|
| Grain | Słodownia Strzegom - monachijski I | 0.38 kg (7.6%) | 79 % | 12 |
| Grain | Malteurop - Pale Ale | 0.19 kg (3.8%) | 80 % | 6 |
| Grain | Weyermann - Caraamber | 0.23 kg (4.6%) | 75 % | 70 |
| Grain | Weyermann - Carared | 0.38 kg (7.6%) | 75 % | 45 |
| Grain | Weyermann - Caramunich II | 0.02 kg (0.4%) | 75 % | 120 |
| Grain | Weyermann - Caramunich III | 0.01 kg (0.2%) | 75 % | 150 |
| Grain | Malteurop - pilzneński | 3.8 kg (75.8%) | 80 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil | Challenger | 17 g | 30 min | 5.8 % |
| Boil | Marynka | 13 g | 60 min | 9.4 % |
| Boil | Challenger | 10 g | 10 min | 5.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------------|------|---------|--------|------------------|
| FM13 - Irlandzkie ciemno?ci | Ale | Culture | 200 g | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|--------|------------|--------|---------|--------|
| Fining | Irish Moss | 5 g | Boil | 10 min |