#24 Pine Irish Stout

- Gravity 12.1 BLG
- ABV **4.9** %
- IBU **18**
- SRM 34
- Style Dry Stout

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 0 %
- Size with trub loss 25 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 28.9 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.8 liter(s)
- Total mash volume 21 liter(s)

Steps

- Temp **67 C**, Time **60 min** Temp **72 C**, Time **15 min**
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 15.8 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 15 min at 72C
- Keep mash 5 min at 76C
- Sparge using 18.4 liter(s) of 76C water or to achieve 28.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) UK	3 kg <i>(57.1%)</i>	75 %	6
Grain	Barley, Flaked	1 kg <i>(19%)</i>	77 %	4
Grain	Pale Chocolate	0.25 kg <i>(4.8%)</i>	70 %	450
Grain	Black Barley (Roast Barley)	0.5 kg <i>(9.5%)</i>	55 %	1300
Grain	Monachijski	0.5 kg <i>(9.5%)</i>	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	30 g	60 min	4.5 %
Boil	Fuggles	20 g	15 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Slant	300 ml	Fermentum Mobile

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	5 g	Boil	15 min
Flavor	Pędy sosny	600 g	Secondary	10 day(s)