Red Rye Lager

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **16**
- SRM 13.7

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 25.3 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.9 liter(s)
- Total mash volume 19.8 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 14.9 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 1 min at 78C
- Sparge using 20.5 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński IREKS	4 kg (80.8%)	80 %	3
Grain	Monachijski IREKS	0.3 kg (6.1%)	80 %	20
Grain	Żytni Weyermann	0.5 kg <i>(10.1%)</i>	75 %	5
Grain	Carafa III special	0.15 kg <i>(3%)</i>	70 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tradition	40 g	60 min	2.8 %
Boil	Tradition	30 g	15 min	2.8 %
Boil	Tradition	30 g	5 min	2.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
W34/70	Lager	Slant	100 ml	