OlRajt

- Gravity 15.2 BLG
- ABV 6.3 %
- IBU 37
- SRM **6.3**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 0 %
- 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 3.5 liter(s) / kg Mash size 21.7 liter(s)
- Total mash volume 27.9 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 63 C, Time 40 min
- Temp 72 C, Time 20 min

Mash step by step

- Heat up 21.7 liter(s) of strike water to 56.6C
- · Add grains
- Keep mash 10 min at 52C
- Keep mash 40 min at 63C
- Keep mash 20 min at 72C
- Sparge using 9.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (80.6%)	81 %	4
Grain	Rye, Flaked	0.4 kg <i>(6.5%)</i>	78.3 %	4
Grain	Rye Malt	0.5 kg (8.1%)	63 %	10
Grain	Caramunich® typ I	0.3 kg <i>(4.8%)</i>	73 %	80

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	40 g	30 min	12 %
Boil	Lublin (Lubelski)	60 g	0 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager S-23	Lager	Dry	11 g	