1 landrynowy

- Gravity 14.5 BLG
- ABV **6** %
- IBU **44**
- SRM **11.8**
- Style American IPA

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 13.2 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 8.7 liter(s)
- Total mash volume 11.6 liter(s)

Steps

- Temp **65 C**, Time **40 min** Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 8.7 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 40 min at 65C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 7.4 liter(s) of 76C water or to achieve 13.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Monachijski	2 kg (69%)	80 %	16
Grain	Rahr - Pale Ale Malt	0.5 kg <i>(17.2%)</i>	79 %	79
Grain	cooke	0.4 kg (13.8%)	%	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	60 min	13.5 %
Aroma (end of boil)	Magnum	5 g	5 min	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP005 - British Ale Yeast	Ale	Dry	10 g	White Labs