Little ZŁY v.2

- Gravity 7.3 BLG
- ABV ----
- IBU **33**
- SRM **7.3**
- Style Rye IPA

Batch size

- Expected quantity of finished beer 30 liter(s)
- Trub loss 5 %
- Size with trub loss 31.5 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 38 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 10.8 liter(s)
- Total mash volume 14.4 liter(s)

Steps

- Temp 72 C, Time 65 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 10.8 liter(s) of strike water to 80.7C
- Add grains
- Keep mash 65 min at 72C
- Keep mash 1 min at 78C
- Sparge using 30.8 liter(s) of 76C water or to achieve 38 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.1 kg <i>(58.3%)</i>	81 %	4
Grain	Żytni	1.2 kg <i>(33.3%)</i>	85 %	8
Grain	Karmelowy żytni Strzegom	0.3 kg (8.3%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Mash	Citra	15 g	60 min	13.5 %
Boil	Citra	20 g	15 min	13.5 %
Boil	Centennial	8 g	60 min	10.5 %
Boil	Cascade	20 g	10 min	7.7 %
Boil	Citra	25 g	5 min	13.5 %
Dry Hop	Citra	45 g	5 day(s)	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Chlorek Wapnia	7 g	Boil	60 min