"waicen" ulka

- Gravity 12.6 BLG
- ABV 5.1 %
- IBU 9
- SRM 4.2

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 27.5 liter(s)
- Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 34.5 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18.3 liter(s)
- Total mash volume 24.4 liter(s)

Steps

- Temp **46 C**, Time **10 min** Temp **51 C**, Time **15 min** Temp **54 C**, Time **10 min**
- Temp 63 C, Time 20 min
- Temp 68 C, Time 15 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 18.3 liter(s) of strike water to 50.3C
- Add grains
- Keep mash 10 min at 46C
- Keep mash 15 min at 51C
- Keep mash 10 min at 54C
- Keep mash 20 min at 63C
- Keep mash 15 min at 68C
- Keep mash 10 min at 78C
- Sparge using 22.3 liter(s) of 76C water or to achieve 34.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	3 kg (49.1%)	81 %	5
Grain	Strzegom Pszeniczny	3 kg <i>(49.1%)</i>	81 %	6
Grain	Monachijski	0.11 kg <i>(1.8%)</i>	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau	25 g	90 min	3.9 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Liquid	150 ml	Fermentum Mobile

Extras

Туре	Name	Amount	Use for	Time
Other	marakuja	1500 g	Secondary	14 day(s)
Other	mango	500 g	Secondary	14 day(s)