#13 Tropical Lager - Twój Browar

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **61**
- SRM **5.8**
- Style Vienna Lager

Batch size

- Expected quantity of finished beer 35 liter(s)
- Trub loss 5 %
- Size with trub loss 36.8 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 44.3 liter(s)

Mash information

- Mash efficiency 83 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 29.1 liter(s)
- Total mash volume 37.4 liter(s)

Steps

- Temp 52 C, Time 1 min
 Temp 64 C, Time 40 min
 Temp 72 C, Time 20 min
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up 29.1 liter(s) of strike water to 56.6C
- Add grains
- Keep mash 1 min at 52C
- Keep mash 40 min at 64C
- Keep mash 20 min at 72C
- Keep mash 2 min at 78C
- Sparge using 23.5 liter(s) of 76C water or to achieve 44.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	6.8 kg (81.9%)	81 %	4
Grain	Vienna Malt	1.2 kg <i>(14.5%)</i>	78 %	8
Grain	Strzegom Karmel 150	0.3 kg <i>(3.6%)</i>	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	10 %
Boil	Enigma (AUS)	80 g	10 min	17.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	22 g	Fermentis