SUMMER ALE wg Twój Browar

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **39**
- SRM **5.4**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.2 liter(s)
- Total mash volume 21.6 liter(s)

Steps

- Temp **63 C**, Time **30 min** Temp **73 C**, Time **30 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 16.2 liter(s) of strike water to 70.2C
- Add grains
- Keep mash 30 min at 63C
- Keep mash 30 min at 73C
- Keep mash 10 min at 78C
- Sparge using 18.2 liter(s) of 76C water or to achieve 29 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg <i>(46.3%)</i>	81 %	4
Grain	Strzegom Wiedeński	2 kg <i>(37%)</i>	79 %	10
Grain	Karmelowy Jasny 30EBC	0.5 kg <i>(9.3%)</i>	75 %	30
Grain	Pszeniczny	0.4 kg (7.4%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galaxy	10 g	60 min	14.5 %
Boil	Motueka	25 g	15 min	8 %
Boil	Amarillo	25 g	10 min	8.9 %
Boil	Galaxy	25 g	5 min	14.5 %
Dry Hop	Citra	50 g	5 day(s)	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	11 g	Mangrove Jack's

Extras

Туре	Name	Amount	Use for	Time
Fining	mech	5 g	Boil	15 min