spring ale

- · Gravity 14 BLG
- ABV ---
- IBU **51**
- SRM **6.2**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.8 liter(s)
- Total mash volume 21 liter(s)

Steps

- Temp 64 C, Time 60 min
 Temp 72 C, Time 10 min
 Temp 78 C, Time 4 min
- Temp 44 C, Time 12 min

Mash step by step

- Heat up 15.8 liter(s) of strike water to 48C
- Add grains
- Keep mash 12 min at 44C
- Keep mash 60 min at 64C
- Keep mash 10 min at 72C
- Keep mash 4 min at 78C
- Sparge using 15.9 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3 kg (57.1%)	85 %	7
Grain	Acid Malt	0.25 kg <i>(4.8%)</i>	58.7 %	6
Grain	Weyermann pszeniczny jasny	2 kg (38.1%)	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	25 g	60 min	8 %
Boil	Mosaic	25 g	50 min	8 %
Boil	Mosaic	10 g	20 min	10 %
Boil	Mosaic	10 g	5 min	10 %
Boil	Mosaic	5 g	1 min	10 %
Dry Hop	Mosaic	20 g	10 day(s)	10 %
Dry Hop	Mosaic	20 g	11 day(s)	10 %
Dry Hop	Mosaic	10 g	12 day(s)	15 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Other	GIPS PIWOWARSKI	4 g	Mash	1 min
Other	MECH IRALNDZKI	3 g	Boil	5 min