#3_19_LowCitrussy_Pale_Ale

- Gravity 11 BLG
- ABV 4.4 %
- IBU 33
- SRM **5**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.7 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.3 liter(s)

Mash information

- Mash efficiency 74 %
- Liquor-to-grist ratio 5 liter(s) / kg
- Mash size 24 liter(s)
- Total mash volume 28.8 liter(s)

Steps

- Temp 71 C, Time 90 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 24 liter(s) of strike water to 76.1C
- Add grains
- Keep mash 90 min at 71C
- Keep mash 1 min at 78C
- Sparge using 8.1 liter(s) of 76C water or to achieve 27.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Soufflet - Pale Ale	2.5 kg <i>(52.1%)</i>	80 %	7
Grain	Oats, Flaked	1 kg (20.8%)	80 %	2
Grain	Monachijski	1 kg (20.8%)	80 %	16
Grain	Weyermann pszeniczny jasny	0.2 kg <i>(4.2%)</i>	80 %	6
Grain	Carahell	0.1 kg <i>(2.1%)</i>	77 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Amarillo	20 g	70 min	9.5 %
Aroma (end of boil)	Amarillo	15 g	10 min	9.5 %
Whirlpool	Amarillo	15 g	15 min	9.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11 g	Danstar

Extras

Туре	Name	Amount	Use for	Time
Fining	whirlfloc	1 g	Boil	10 min
Spice	sok z cytryny	15 g	Mash	90 min