Belgian Pale Ale

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **34**
- SRM 7.2
- Style Belgian Pale Ale

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 3 %
- Size with trub loss 22.7 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 27.4 liter(s)

Mash information

- Mash efficiency 79 %
- Liquor-to-grist ratio 3.2 liter(s) / kg
- Mash size 15.2 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 55 C, Time 10 min
 Temp 62 C, Time 40 min
 Temp 72 C, Time 20 min
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up 15.2 liter(s) of strike water to 60.5C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 40 min at 62C
- Keep mash 20 min at 72C
- Keep mash 10 min at 76C
- Sparge using 17 liter(s) of 76C water or to achieve 27.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	3 kg (63.2%)	%	
Grain	Monachijski Ciemny Steinbach	1 kg (21.1%)	%	
Grain	Crystal 150	0.2 kg <i>(4.2%)</i>	%	
Grain	Amber Malt	0.25 kg <i>(5.3%)</i>	75 %	43
Grain	Weyermann - Carapils	0.1 kg (2.1%)	78 %	4
Grain	Special B Malt	0.2 kg (4.2%)	65.2 %	315

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	15 g	60 min	7.3 %
Boil	Chinook	15 g	60 min	13.5 %
Whirlpool	Challenger	30 g		7.3 %
Whirlpool	Chinook	33 g		13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Spice	curacao	5 g	Boil	1 min
Spice	suszone owoce gorzkiej pomarańczy	5 g	Boil	1 min