BELGIAN PALE ALE V3 #76

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **31**
- SRM **6.7**
- Style Belgian Pale Ale

Batch size

- Expected quantity of finished beer 20.5 liter(s)
- Trub loss 5 %
- Size with trub loss 21.5 liter(s)
- Boil time 90 min
- Evaporation rate 12 %/h
- Boil size 26.1 liter(s)

Mash information

- Mash efficiency 81.8 %
- Liquor-to-grist ratio 4.37 liter(s) / kg
- Mash size **20 liter(s)**
- Total mash volume 24.6 liter(s)

Steps

- Temp 64 C, Time 20 min
 Temp 72 C, Time 45 min
- Temp **75 C**, Time **7 min**

Mash step by step

- Heat up 20 liter(s) of strike water to 69C
- Add grains
- Keep mash 20 min at 64C
- Keep mash 45 min at 72C
- Keep mash 7 min at 75C
- Sparge using 10.7 liter(s) of 76C water or to achieve 26.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	MEP - pale ale	2.87 kg <i>(62.7%)</i>	82.1 %	5.5
Grain	Viking - monachijski I	1.14 kg <i>(24.9%)</i>	78 %	16
Grain	Weyermann - Abbey	0.34 kg <i>(7.4%)</i>	75 %	45
Grain	Weyermann - Carabelge	0.23 kg <i>(5%)</i>	74 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	10 g	60 min	14.7 %
Aroma (end of boil)	Styrian Golding	50 g	15 min	4 %
Aroma (end of boil)	Simcoe	10 g	5 min	13.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M47 Belgian Abbey	Ale	Slant	130 ml	Mangrove Jack's

Extras

Туре	Name	Amount	Use for	Time
Water Agent	gips	2 g	Mash	
Water Agent	kwas mlekowy [ml]	3.86 g	Mash	
Water Agent	epsom	1.5 g	Mash	
Water Agent	chlorek wapnia [ml]	3.44 g	Mash	
Fining	mech irlandzki	3 g	Boil	5 min