Belgian pale ale

- Gravity 12.4 BLG
- ABV 5 %
- IBU **26**
- SRM **7.8**
- Style Belgian Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 65 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19.5 liter(s)
- Total mash volume 26 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 62 C, Time 45 min
 Temp 72 C, Time 45 min
- Temp **77 C**, Time **1 min**

Mash step by step

- Heat up 19.5 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 45 min at 62C
- Keep mash 45 min at 72C
- Keep mash 1 min at 77C
- Sparge using 12.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński - Strzegom	2 kg <i>(30.8%)</i>	70 %	4
Grain	Monachijski typ II - Strzegom	1.5 kg <i>(23.1%)</i>	70 %	22
Grain	Pale Ale - Strzegom	2 kg <i>(30.8%)</i>	70 %	6
Grain	Carabelge - Weyermann	0.5 kg <i>(7.7%)</i>	70 %	30
Grain	Karmelowy Biscuit 50 Castle	0.5 kg <i>(7.7%)</i>	70 %	9

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings - UK	30 g	60 min	4.5 %
Boil	Styrian Goldings - Słowenia	30 g	20 min	5.3 %

Yeasts

Name Type	Form	Amount	Laboratory
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	Mangrove Jack's M41 Belgian Ale	Ale	Dry	10 g	Mangrove Jack's
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