

## #059 Belgian Pale Ale

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **21**
- SRM **8.7**
- Style **Belgian Pale Ale**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **8 %**
- Size with trub loss **24.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **11 %/h**
- Boil size **31.2 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **24.2 liter(s)**
- Total mash volume **30.3 liter(s)**

### Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **24.2 liter(s)** of strike water to **69.5C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **13.1 liter(s)** of **76C** water or to achieve **31.2 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.8 kg (46.3%)	80 %	5
Grain	Strzegom Monachijski typ I	1.5 kg (24.8%)	79 %	16
Grain	Abbey Malt Weyermann	1.25 kg (20.7%)	75 %	45
Grain	Carabelge	0.5 kg (8.3%)	80 %	30

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Kazbek	25 g	60 min	6.7 %
Boil	Kazbek	25 g	10 min	6.7 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM26 Belgijskie Pagórki	Ale	Liquid	1000 ml	Fermentum Mobile

### Extras

Type	Name	Amount	Use for	Time
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Fining	whirfloc t	1.25 g	Boil	10 min
Other	pożywka dla drożdży Wyeast	3 g	Boil	10 min