

Pale Ale

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **15**
- SRM **4.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **15.5 liter(s)**
- Total mash volume **20.2 liter(s)**

Steps

- Temp **67 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **15.5 liter(s)** of strike water to **74.1C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **12 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.7 kg (57.4%)	80 %	5
Grain	Pilzneński	1.5 kg (31.9%)	81 %	4
Grain	Strzegom Pszeniczny	0.3 kg (6.4%)	81 %	6
Grain	Płatki owsiane	0.2 kg (4.3%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	9 g	60 min	13.2 %
Whirlpool	Lublin (Lubelski)	6 g	10 min	4 %
Dry Hop	Lublin (Lubelski)	20 g	2 day(s)	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis