

Pale Ale

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **30**
- SRM **4.1**

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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **16 liter(s)**

Steps

- Temp **68 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **12 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **17.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|--------------|-------|-----|
| Grain | Viking Pale Ale malt | 3.2 kg (80%) | 100 % | 5 |
| Grain | Monachijski | 0.6 kg (15%) | 80 % | 16 |
| Grain | Bestmalz Carmel Pils | 0.2 kg (5%) | 75 % | 5 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------------|--------|--------|------------|
| Boil | Phoenix | 30 g | 0 min | 11 % |
| Boil | Progress | 40 g | 50 min | 5.5 % |
| Boil | Warrior queen | 10 g | 50 min | 6.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|------|----------------|--------|---------|--------|
| Herb | mech irlandzki | 5 g | Boil | 50 min |

Notes

- Wylądzać 15l wody w temp.80C

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