

pOwP Royal Beer

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **28**
- SRM **3.5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **10 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **32.7 liter(s)**

Mash information

- Mash efficiency **88 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **27 liter(s)**

Steps

- Temp **72 C**, Time **60 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **79.4C**
- Add grains
- Keep mash **60 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **17.7 liter(s)** of **76C** water or to achieve **32.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|---------------|-------|-----|
| Grain | Pilzneński Soufflet | 5 kg (83.3%) | 81 % | 4 |
| Grain | Rice, Flaked | 0.5 kg (8.3%) | 70 % | 2 |
| Grain | Płatki owsiane | 0.5 kg (8.3%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|----------|------------|
| Boil | Oktawia | 20 g | 60 min | 9 % |
| Boil | Oktawia | 20 g | 5 min | 9 % |
| Aroma (end of boil) | Oktawia | 30 g | 1 min | 9 % |
| Whirlpool | Oktawia | 30 g | 30 min | 9 % |
| Dry Hop | Oktawia | 50 g | 5 day(s) | 9 % |
| Dry Hop | Oktawia | 50 g | 3 day(s) | 9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------------------|------|--------|--------|-------------|
| Wyeast 1098 British Ale | Ale | Liquid | 200 ml | Wyeast Labs |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-----------------|--------|---------|----------|
| Water Agent | Chlorek wapnia | 7 g | Boil | 60 min |
| Water Agent | Siarczan wapnia | 7 g | Boil | 60 min |
| Fining | Whirlfloc | 0.5 g | Boil | 10 min |
| Other | Alfaamylaza | 2 g | Primary | 3 day(s) |

Notes

- Woda "Oaza" z Biedry:
HCO - 220
SO - 36
Cl - 3
Ca - 41
Mg - 24
Na - 9
K - 2
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