

Piwowar - Micro IPA

- Gravity **8 BLG**
- ABV **3.1 %**
- IBU **21**
- SRM **3.2**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.1 liter(s)**
- Boil time **40 min**
- Evaporation rate **10 %/h**
- Boil size **34 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.1 liter(s)**
- Total mash volume **20.2 liter(s)**

Steps

- Temp **52 C**, Time **5 min**
- Temp **67 C**, Time **15 min**
- Temp **72 C**, Time **50 min**

Mash step by step

- Heat up **15.1 liter(s)** of strike water to **57.4C**
- Add grains
- Keep mash **5 min** at **52C**
- Keep mash **15 min** at **67C**
- Keep mash **50 min** at **72C**
- Sparge using **24 liter(s)** of **76C** water or to achieve **34 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|-----------------|-------|-----|
| Grain | Viking Pale Ale malt | 2.5 kg (49.5%) | 80 % | 5 |
| Grain | Płatki pszeniczne | 0.75 kg (14.9%) | 60 % | 3 |
| Grain | Płatki owsiane | 0.75 kg (14.9%) | 60 % | 3 |
| Grain | Bestmalz Carmel Pils | 0.75 kg (14.9%) | 75 % | 5 |
| Grain | Viking Malt Żytni | 0.3 kg (5.9%) | 85 % | 7 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|-----------|------------|
| Boil | Citra | 15 g | 40 min | 13.6 % |
| Aroma (end of boil) | Citra | 75 g | 1 min | 13.6 % |
| Dry Hop | Citra | 60 g | 7 day(s) | 13.6 % |
| Dry Hop | Mosaic | 75 g | 12 day(s) | 11.8 % |
| Dry Hop | Equinox | 75 g | 7 day(s) | 12.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------|------|--------|--------|------------|
| WLP067 - Coastal Haze | Ale | Liquid | 70 ml | White Labs |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|----------------------|--------|---------|-------|
| Water Agent | Gips piwowarski | 4 g | Mash | 0 min |
| Water Agent | Chlorek wapnia (95%) | 3.33 g | Mash | 0 min |