

Klon panIPAni

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **42**
- SRM **4.6**
- Style **White IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **23.2 liter(s)**

Steps

- Temp **67 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **17.4 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **40 min** at **67C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **17.4 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński | 3.5 kg (60.3%) | 80 % | 4 |
| Grain | Strzegom Monachijski typ I | 1 kg (17.2%) | 79 % | 16 |
| Grain | Pszeniczny | 0.5 kg (8.6%) | 85 % | 4 |
| Grain | Płatki owsiane | 0.4 kg (6.9%) | 85 % | 3 |
| Grain | Płatki pszeniczne | 0.4 kg (6.9%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|----------|--------|----------|------------|
| Boil | Equinox | 15 g | 60 min | 13.1 % |
| Boil | Mosaic | 15 g | 30 min | 11.8 % |
| Boil | Citra | 10 g | 15 min | 14.2 % |
| Boil | Amarillo | 10 g | 15 min | 8.8 % |
| Dry Hop | Amarillo | 40 g | 5 day(s) | 8.8 % |
| Dry Hop | Mosaic | 35 g | 5 day(s) | 11.8 % |
| Dry Hop | Citra | 25 g | 5 day(s) | 14.2 % |
| Dry Hop | Galena | 50 g | 5 day(s) | 12 % |

Yeasts

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

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------------------|--------|---------|-------|
| Spice | Kolendra | 5 g | Boil | 5 min |
| Herb | Rumianek | 5 g | Boil | 5 min |
| Flavor | Skórka z 7 pomarańczy | 20 g | Boil | 5 min |