

Sen wariata

- Gravity **16.8 BLG**
- ABV **7.1 %**
- IBU **88**
- SRM **4.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

Steps

- Temp **69 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **16.5 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **60 min** at **69C**
- Keep mash **5 min** at **78C**
- Sparge using **15.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|---------------|--------|-----|
| Grain | Weyermann - Pale Ale Malt | 3 kg (46.2%) | 85 % | 7 |
| Grain | Weyermann - Carapils | 1 kg (15.4%) | 78 % | 4 |
| Grain | Płatki owsiane | 0.5 kg (7.7%) | 85 % | 3 |
| Grain | Płatki pszeniczne | 0.5 kg (7.7%) | 85 % | 3 |
| Sugar | Milk Sugar (Lactose) | 1 kg (15.4%) | 76.1 % | 0 |
| Grain | Pszeniczny | 0.5 kg (7.7%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|------------|-------|--------|--------|------------|
| First Wort | lunga | 30 g | 60 min | 11 % |
| Boil | lunga | 30 g | 60 min | 11 % |
| Boil | Citra | 30 g | 20 min | 12 % |
| Boil | Citra | 30 g | 5 min | 12 % |
| Whirlpool | Citra | 30 g | 0 min | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|-------------|-----|-----|--------|--------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |
|-------------|-----|-----|--------|--------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|---------------------------------|--------|-----------|----------|
| Herb | trawa cytrynowa | 50 g | Boil | 10 min |
| Flavor | mrożone owoce tuskawki/mango | 1000 g | Secondary | 7 day(s) |