

Ipa

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **119**
- SRM **6.1**
- Style **American 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 **21 liter(s)**
- Total mash volume **28 liter(s)**

Steps

- Temp **68 C**, Time **63 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **63 min** at **68C**
- Sparge using **15 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------|--------------|-------|-----|
| Grain | Briess - Pale Ale Malt | 5 kg (71.4%) | 80 % | 7 |
| Grain | Strzegom Wiedeński | 2 kg (28.6%) | 79 % | 10 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|--------|------------|
| Boil | Magnum | 50 g | 60 min | 13.5 % |
| Boil | Sybilla | 50 g | 60 min | 3.5 % |
| Boil | Simcoe | 30 g | 60 min | 13.2 % |
| Aroma (end of boil) | Citra | 30 g | 10 min | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 22 g | Fermentis |