

# Brut IPA

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **27**
- SRM **3.3**
- 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 **5 %/h**
- Boil size **24.1 liter(s)**

## Mash information

- Mash efficiency **90 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **20.3 liter(s)**

## Steps

- Temp **62 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **15.8 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **60 min** at **62C**
- Keep mash **5 min** at **76C**
- Sparge using **12.8 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

## Fermentables

| Type  | Name              | Amount          | Yield | EBC |
|-------|-------------------|-----------------|-------|-----|
| Grain | Pilznieński       | 3 kg (66.7%)    | 81 %  | 4   |
| Grain | Płatki pszeniczne | 0.75 kg (16.7%) | 85 %  | 3   |
| Grain | Płatki owsiane    | 0.75 kg (16.7%) | 85 %  | 3   |

## Hops

| Use for             | Name       | Amount | Time     | Alpha acid |
|---------------------|------------|--------|----------|------------|
| Boil                | Ekuanot    | 25 g   | 15 min   | 16.1 %     |
| Aroma (end of boil) | Ekuanot    | 25 g   | 2 min    | 16.1 %     |
| Aroma (end of boil) | Cascade PL | 25 g   | 2 min    | 4.5 %      |
| Aroma (end of boil) | Centennial | 25 g   | 2 min    | 8.5 %      |
| Dry Hop             | Ekuanot    | 50 g   | 3 day(s) | 16.1 %     |
| Dry Hop             | Cascade PL | 25 g   | 3 day(s) | 4.5 %      |
| Dry Hop             | Centennial | 25 g   | 3 day(s) | 8.5 %      |

## Yeasts

| Name        | Type | Form  | Amount | Laboratory |
|-------------|------|-------|--------|------------|
| Vermont Ale | Ale  | Slant | 150 ml | Yeast Bay  |

## Extras

| Type        | Name           | Amount | Use for | Time   |
|-------------|----------------|--------|---------|--------|
| Other       | ALFAAMYLAZA    | 1 g    | Mash    | 10 min |
| Water Agent | Chlorek wapnia | 11 g   | Boil    | 60 min |