

# IPA z jałowcem

- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **75**
- SRM **4.4**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.5 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

## Steps

- Temp **68 C**, Time **50 min**
- Temp **72 C**, Time **10 min**

## Mash step by step

- Heat up **19.5 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **50 min** at **68C**
- Keep mash **10 min** at **72C**
- Sparge using **14.5 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3 kg (46.2%)   | 80 %  | 5   |
| Grain | Viking Pilsner malt  | 1.5 kg (23.1%) | 82 %  | 4   |
| Grain | Viking Wheat Malt    | 1 kg (15.4%)   | 83 %  | 5   |
| Grain | Płatki owsiane       | 1 kg (15.4%)   | 60 %  | 3   |

## Hops

| Use for             | Name     | Amount | Time     | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil                | Columbus | 30 g   | 60 min   | 12.6 %     |
| Boil                | Citra    | 20 g   | 60 min   | 12.9 %     |
| Boil                | Sybilla  | 20 g   | 10 min   | 6 %        |
| Aroma (end of boil) | Eureka!  | 20 g   | 1 min    | 18.1 %     |
| Whirlpool           | Eureka!  | 30 g   | 15 min   | 18.1 %     |
| Dry Hop             | Eureka!  | 25 g   | 3 day(s) | 18.1 %     |
| Dry Hop             | Mosaic   | 20 g   | 3 day(s) | 12.3 %     |

## Yeasts

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

## Extras

| Type   | Name            | Amount | Use for   | Time     |
|--------|-----------------|--------|-----------|----------|
| Flavor | trawa cytrynowa | 20 g   | Boil      | 15 min   |
| Herb   | jagody jałowca  | 20 g   | Boil      | 15 min   |
| Herb   | jagody jałowca  | 20 g   | Secondary | 3 day(s) |