

# #1

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **39**
- SRM **17.2**
- Style **Brown IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **26.8 liter(s)**

## Mash information

- Mash efficiency **55 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.6 liter(s)**
- Total mash volume **12.8 liter(s)**

## Fermentables

| Type           | Name                 | Amount         | Yield | EBC |
|----------------|----------------------|----------------|-------|-----|
| Liquid Extract | Coopers LME - Dark   | 1.7 kg (28.8%) | 78 %  | 130 |
| Grain          | Viking Pale Ale malt | 1.5 kg (25.4%) | 80 %  | 5   |
| Grain          | Strzegom Karmel 150  | 0.2 kg (3.4%)  | 75 %  | 150 |
| Grain          | Viking Pilsner malt  | 1.5 kg (25.4%) | 82 %  | 4   |
| Sugar          | Glukoza              | 1 kg (16.9%)   | --- % | --- |

## Hops

| Use for   | Name    | Amount | Time     | Alpha acid |
|-----------|---------|--------|----------|------------|
| Boil      | Marynka | 30 g   | 60 min   | 10 %       |
| Boil      | Perle   | 20 g   | 20 min   | 7 %        |
| Whirlpool | Sybilla | 30 g   | 10 min   | 3.5 %      |
| Dry Hop   | Oktawia | 20 g   | 8 day(s) | 7.1 %      |
| Dry Hop   | Oktawia | 30 g   | 7 day(s) | 7.1 %      |
| Dry Hop   | Cascade | 50 g   | 7 day(s) | 6 %        |

## Yeasts

| Name    | Type | Form | Amount | Laboratory |
|---------|------|------|--------|------------|
| Coopers | Ale  | Dry  | 7.5 g  | ---        |

## Extras

| Type        | Name            | Amount | Use for | Time   |
|-------------|-----------------|--------|---------|--------|
| Water Agent | Gips            | 4 g    | Mash    | 70 min |
| Fining      | Mech irlandzki  | 3 g    | Boil    | 15 min |
| Herb        | Trawa cytrynowa | 10 g   | Boil    | 70 min |
| Herb        | Kaffir          | 3 g    | Boil    | 70 min |

|       |                |     |           |          |
|-------|----------------|-----|-----------|----------|
| Herb  | Kaffir         | 5 g | Secondary | 7 day(s) |
| Other | Skórka limonki | 5 g | Secondary | 7 day(s) |