

# POPOŁUDNIA BEZKARNIE CYTRYNOWE... CYTRYNOWE!

- Gravity **15.4 BLG**
- ABV ---
- IBU **81**
- SRM **6.3**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **17 liter(s)**
- Trub loss **15 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **28.1 liter(s)**

## Mash information

- Mash efficiency **76 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.1 liter(s)**
- Total mash volume **22.8 liter(s)**

## Steps

- Temp **63 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **17.1 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **10 min** at **76C**
- Sparge using **16.7 liter(s)** of **76C** water or to achieve **28.1 liter(s)** of wort

## Fermentables

| Type  | Name               | Amount         | Yield  | EBC |
|-------|--------------------|----------------|--------|-----|
| Grain | Strzegom Pale Ale  | 5.4 kg (91.5%) | 79 %   | 6   |
| Grain | Strzegom Żytni     | 0.3 kg (5.1%)  | 81 %   | 8   |
| Sugar | Candi Sugar, Clear | 0.2 kg (3.4%)  | 78.3 % | 2   |

## Hops

| Use for             | Name              | Amount | Time     | Alpha acid |
|---------------------|-------------------|--------|----------|------------|
| Boil                | Apollo            | 25 g   | 60 min   | 17 %       |
| Aroma (end of boil) | Mosaic            | 100 g  | 10 min   | 10 %       |
| Whirlpool           | Lemon drop (77`C) | 50 g   | 30 min   | 4.6 %      |
| Whirlpool           | Amarillo (77`C)   | 50 g   | 30 min   | 8.9 %      |
| Dry Hop             | Chinook           | 30 g   | 7 day(s) | 13 %       |
| Dry Hop             | Amarillo          | 80 g   | 7 day(s) | 8.9 %      |
| Dry Hop             | Lemon drop        | 50 g   | 7 day(s) | 4.6 %      |

## Yeasts

| Name  | Type | Form   | Amount  | Laboratory |
|-------|------|--------|---------|------------|
| US--5 | Ale  | Liquid | 1000 ml | ---        |

## Extras

| Type   | Name           | Amount | Use for | Time   |
|--------|----------------|--------|---------|--------|
| Fining | Mech Irlandzki | 5 g    | Boil    | 15 min |