

Fantastyczna COLD IPA - test receptury drożdżę GMO

- Gravity **14.7 BLG**
- ABV ---
- IBU **70**
- SRM **4.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **8 %**
- Size with trub loss **23.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.7 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **62 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **79 C**, Time **15 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **50 min** at **62C**
- Keep mash **10 min** at **72C**
- Keep mash **15 min** at **79C**
- Sparge using **13.7 liter(s)** of **76C** water or to achieve **27.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------------|----------------|-------|-----|
| Grain | Pilzński | 5 kg (71.4%) | 81 % | 4 |
| Grain | Briess - Pale Ale Malt | 1 kg (14.3%) | 80 % | 7 |
| Grain | Bestmalz - zakwaszający | 0.25 kg (3.6%) | 80 % | 6 |
| Grain | Chit Malt | 0.25 kg (3.6%) | 50 % | 2 |
| Grain | Rice, Flaked | 0.5 kg (7.1%) | 70 % | 2 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------------|--------|----------|------------|
| Boil | Galaxy | 50 g | 20 min | 15 % |
| Aroma (end of boil) | Nelson Sauvín | 25 g | 10 min | 11 % |
| Aroma (end of boil) | Galaxy | 25 g | 10 min | 15 % |
| Whirlpool | Nelson Sauvín | 25 g | 15 min | 11 % |
| Dry Hop | Nelson Sauvín | 50 g | 5 day(s) | 11 % |
| Dry Hop | Galaxy | 25 g | 8 day(s) | 15 % |

Yeasts

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Name | Type | Form | Amount | Laboratory |
|------------------------|-------------|-------------|---------------|-------------------|
| OYL-403 LUNAR CRUSH | Lager | Liquid | 500 ml | Omega |