

## Brut APA

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **25**
- SRM **2.9**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **20.2 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **12.6 liter(s)**
- Total mash volume **16.2 liter(s)**

### Steps

- Temp **65 C**, Time **60 min**
- Temp **77 C**, Time **0 min**

### Mash step by step

- Heat up **12.6 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **0 min** at **77C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **20.2 liter(s)** of wort

### Fermentables

| Type  | Name                       | Amount         | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Pilzneński Weyermann       | 2.7 kg (75%)   | 80 %  | 3   |
| Grain | Płatki ryżowe              | 0.6 kg (16.7%) | 87 %  | 0.7 |
| Grain | Weyermann pszeniczny jasny | 0.3 kg (8.3%)  | 80 %  | 5   |

### Hops

| Use for             | Name          | Amount | Time   | Alpha acid |
|---------------------|---------------|--------|--------|------------|
| First Wort          | Citra         | 11 g   | 60 min | 12 %       |
| Boil                | Citra         | 5 g    | 5 min  | 12 %       |
| Boil                | Citra         | 11 g   | 5 min  | 12 %       |
| Aroma (end of boil) | Citra         | 30 g   | 0 min  | 12 %       |
| Whirlpool           | Nelson Sauvín | 50 g   | 0 min  | 11 %       |
| Whirlpool           | Citra         | 14 g   | 0 min  | 12 %       |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 12 g   | ---        |

### Notes

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

- Burzliwa 16-23st. 14 dni  
Cicha 20-18 st. 7 dni  
6st. 3dni Galaxy 50 gr.  
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