

## Low Alc IPA

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- Gravity **7.1 BLG**
- ABV **2.7 %**
- IBU **36**
- SRM **2.5**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **8 %**
- Size with trub loss **24.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.7 liter(s)**
- Total mash volume **11.6 liter(s)**

### Steps

- Temp **68 C**, Time **30 min**
- Temp **72 C**, Time **30 min**

### Mash step by step

- Heat up **8.7 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **30 min** at **68C**
- Keep mash **30 min** at **72C**
- Sparge using **24.2 liter(s)** of **76C** water or to achieve **30 liter(s)** of wort

### Fermentables

| Type    | Name                  | Amount         | Yield | EBC |
|---------|-----------------------|----------------|-------|-----|
| Grain   | Strzegom Pilzneński   | 1.2 kg (37.5%) | 80 %  | 4   |
| Grain   | Malteurop Pale Ale    | 0.8 kg (25%)   | 80 %  | 5   |
| Grain   | Strzegom Pszeniczny   | 0.2 kg (6.3%)  | 81 %  | 6   |
| Grain   | Oats, Flaked          | 0.5 kg (15.6%) | 80 %  | 2   |
| Grain   | Rye Malt              | 0.2 kg (6.3%)  | 63 %  | 10  |
| Adjunct | Pszenica niesłodowana | 0.3 kg (9.4%)  | 75 %  | 3   |

### Hops

| Use for   | Name     | Amount | Time     | Alpha acid |
|-----------|----------|--------|----------|------------|
| Boil      | Amarillo | 35 g   | 60 min   | 8.2 %      |
| Whirlpool | Amarillo | 20 g   | 10 min   | 8.2 %      |
| Dry Hop   | Amarillo | 45 g   | 2 day(s) | 8.2 %      |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11 g   | ---        |

### Extras

| Type   | Name        | Amount | Use for | Time   |
|--------|-------------|--------|---------|--------|
| Fining | whirlfloc T | 1 g    | Boil    | 15 min |

### Notes

- moze dodac hibiskus lub earl grey'a ?  
*Apr 17, 2019, 2:56 PM*