

## Aenigma 3.0

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **88**
- SRM **7.2**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **9 %**
- Size with trub loss **12 liter(s)**
- Boil time **60 min**
- Evaporation rate **16 %/h**
- Boil size **16 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.33 liter(s) / kg**
- Mash size **10 liter(s)**
- Total mash volume **13 liter(s)**

### Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **80 C**, Time **1 min**

### Mash step by step

- Heat up **10 liter(s)** of strike water to **68.3C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **1 min** at **80C**
- Sparge using **9 liter(s)** of **76C** water or to achieve **16 liter(s)** of wort

### Fermentables

| Type  | Name                         | Amount         | Yield | EBC |
|-------|------------------------------|----------------|-------|-----|
| Grain | Viking Malt - Pale Ale       | 2.5 kg (83.3%) | 80 %  | 7   |
| Grain | Simpsons - Golden Naked Oats | 0.25 kg (8.3%) | 73 %  | 20  |
| Grain | Weyermann - Zakwaszający     | 0.15 kg (5%)   | 80 %  | 5   |
| Grain | Fawcett - Crystal            | 0.1 kg (3.3%)  | 70 %  | 160 |

### Hops

| Use for | Name                | Amount | Time   | Alpha acid |
|---------|---------------------|--------|--------|------------|
| Boil    | Enigma (AUS - 2020) | 50 g   | 15 min | 18.2 %     |
| Boil    | Enigma (AUS - 2020) | 50 g   | 1 min  | 18.2 %     |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | Fermentis  |

### Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|             |                                               |         |      |        |
|-------------|-----------------------------------------------|---------|------|--------|
| Other       | Woda zacieranie<br>(Olsztyńska -<br>Nagórki)  | 10000 g | Mash | 71 min |
| Other       | Woda wysładzanie<br>(Olsztyńska -<br>Nagórki) | 10000 g | Mash | 71 min |
| Water Agent | Kwas fosforowy<br>(wysładzanie)               | 5 g     | Mash | 71 min |
| Fining      | Whirlfloc T                                   | 1 g     | Boil | 5 min  |

## Notes

- Aenigma - zagadka, rzecz trudna do zrozumienia, niejasna wskazówka.  
*Feb 15, 2021, 6:25 AM*