

## Aenigma 3.0

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- 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
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Other	Woda zacieranie (Olsztyńska - Nagórki)	10000 g	Mash	71 min
Other	Woda wysładzanie (Olsztyńska - Nagórki)	10000 g	Mash	71 min
Water Agent	Kwas fosforowy (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*