

# SINGLE HOP ENIGMA

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **61**
- SRM **4.8**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **25.4 liter(s)**

## Mash information

- Mash efficiency **67 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.6 liter(s)**
- Total mash volume **24.8 liter(s)**

## Steps

- Temp **55 C**, Time **5 min**
- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **25 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **18.6 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **5 min** at **55C**
- Keep mash **30 min** at **64C**
- Keep mash **25 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **13 liter(s)** of **76C** water or to achieve **25.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	BESTMALZ - Bestt Pale Ale	5 kg (80.6%)	80.5 %	6
Grain	Płatki pszeniczne	1.2 kg (19.4%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Enigma (AUS)	12 g	60 min	17.2 %
Boil	Enigma (AUS)	10 g	30 min	17.2 %
Boil	Enigma (AUS)	15 g	15 min	17.2 %
Boil	Enigma (AUS)	40 g	5 min	17.2 %
Dry Hop	Enigma (AUS)	73 g	7 day(s)	17.2 %

## Yeasts

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