

## #105 APA SH Enigma

- Gravity **9.3 BLG**
- ABV **3.6 %**
- IBU **32**
- SRM **2.6**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **4 %**
- Size with trub loss **25.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.6 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.2 liter(s)**
- Total mash volume **19.5 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **1 min**

### Mash step by step

- Heat up **15.2 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **19.7 liter(s)** of **76C** water or to achieve **30.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Malteurop Lager	3.5 kg (80.8%)	82 %	3
Grain	Platki owsiane	0.5 kg (11.5%)	85 %	3
Grain	Weyermann - Carapils	0.33 kg (7.6%)	78 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Enigma (AUS)	10 g	60 min	18.2 %
Boil	Enigma (AUS)	20 g	10 min	18.2 %
Boil	Enigma (AUS)	20 g	0 min	18.2 %
Dry Hop	Enigma (AUS)	50 g	4 day(s)	18.2 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Slant	200 ml	Danstar