

## #04 SINGLE HOP IUNGA

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- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **39**
- SRM **4.2**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

### Steps

- Temp **64 C**, Time **50 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **0 min**

### Mash step by step

- Heat up **16.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **50 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **0 min** at **76C**
- Sparge using **14.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (90.9%)	81 %	4
Grain	Strzegom Wiedeński	0.4 kg (7.3%)	79 %	10
Grain	Strzegom Pszeniczny	0.1 kg (1.8%)	81 %	6

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	60 min	9.2 %
Boil	lunga	15 g	15 min	9.2 %
Aroma (end of boil)	lunga	15 g	5 min	9.2 %
Dry Hop	lunga	200 g	3 day(s)	9.2 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	---