

## #158 Cicho tam

- Gravity **9.5 BLG**
- ABV **3.7 %**
- IBU **39**
- SRM **3.7**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **19.2 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **22.6 liter(s)**

### Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3.03 liter(s) / kg**
- Mash size **10 liter(s)**
- Total mash volume **13.3 liter(s)**

### Steps

- Temp **67 C**, Time **75 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **10 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **75 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **15.9 liter(s)** of **76C** water or to achieve **22.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale	2.9 kg (87.9%)	80 %	6.7
Grain	Płatki owsiane	0.4 kg (12.1%)	60 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial US 2021 granulát	20 g	60 min	10.7 %
Boil	Mosaic US 2021 granulát	10 g	25 min	11.8 %
Dry Hop	Centennial US 2021 granulát	30 g	7 day(s)	10.7 %
Dry Hop	Mosaic US 2021 granulát	90 g	7 day(s)	12.8 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	40 ml	Fermentum Mobile