

# MEGA STOUT

- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **66**
- SRM **36.1**
- Style **American Stout**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **22 %/h**
- Boil size **35.1 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **23.7 liter(s)**
- Total mash volume **31.6 liter(s)**

## Steps

- Temp **37 C**, Time **20 min**
- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **23.7 liter(s)** of strike water to **39.8C**
- Add grains
- Keep mash **20 min** at **37C**
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **19.3 liter(s)** of **76C** water or to achieve **35.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (57%)	80 %	5
Grain	Strzegom Monachijski typ II	1 kg (12.7%)	79 %	22
Grain	Żytni	0.5 kg (6.3%)	85 %	8
Grain	Pszeniczny	0.4 kg (5.1%)	85 %	4
Grain	Brown	0.3 kg (3.8%)	72 %	200
Grain	płatki jęczmienne	0.3 kg (3.8%)	--- %	4
Grain	Fawcett - Pale Chocolate	0.3 kg (3.8%)	71 %	600
Grain	Czekoladowy 1200 UK	0.3 kg (3.8%)	68 %	1202
Grain	Jęczmień palony	0.3 kg (3.8%)	55 %	985

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	50 g	60 min	11.4 %
Boil	Cascade	15 g	15 min	7.7 %
Boil	Simcoe	15 g	15 min	11.4 %

Boil	Cascade	35 g	5 min	7.7 %
Boil	Simcoe	35 g	5 min	11.4 %
Dry Hop	Simcoe	50 g	7 day(s)	13.2 %
Dry Hop	Citra	50 g	7 day(s)	12 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

### Extras

Type	Name	Amount	Use for	Time
Water Agent	kreda czy coś tam	5 g	Mash	---