

# Guinness Clone Test

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- Gravity **10.5 BLG**
- ABV **4.2 %**
- IBU **30**
- SRM **45.4**
- Style **Dry Stout**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.4 liter(s)**
- Total mash volume **19.8 liter(s)**

## Steps

- Temp **55 C**, Time **1 min**
- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **15.4 liter(s)** of strike water to **60C**
- Add grains
- Keep mash **1 min** at **55C**
- Keep mash **60 min** at **68C**
- Keep mash **5 min** at **76C**
- Sparge using **19.4 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale Best	3 kg (66.7%)	80 %	6
Grain	Oats, Flaked	1 kg (22.2%)	80 %	2
Grain	Chocolate Best	0.2 kg (4.4%)	75 %	900
Grain	Carafa II Best	0.2 kg (4.4%)	65 %	1100
Liquid Extract	sinamar	0.1 kg (2.2%)	--- %	8000

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	10 g	60 min	9 %
Boil	East Kent Goldings	50 g	15 min	5.7 %
Aroma (end of boil)	East Kent Goldings	50 g	5 min	5.7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast - 1728 Scottish Ale	Ale	Slant	150 ml	Wyeast Labs

## Extras

Type	Name	Amount	Use for	Time
Fining	WHIRLFLOC	1.2 g	Boil	10 min

### Notes

- następnym razem barley roasted i carafa 0,3 kg  
przerwa 68°C - 60 min  
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