

# klarstein test1

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- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **19**
- SRM **4.2**

## 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 **70 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **22.5 liter(s)**

## Steps

- Temp **72 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **18 liter(s)** of strike water to **78.5C**
- Add grains
- Keep mash **60 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **11.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	soufflet pale ale	3 kg (66.7%)	80 %	7
Grain	soufflet pszeniczny	1.5 kg (33.3%)	80 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	citra	30 g	10 min	13.2 %
Aroma (end of boil)	Nelson Sauvín	20 g	2 min	9.9 %

## Yeasts

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