

# lichtenheheheiner

- Gravity **9.8 BLG**
- ABV **3.8 %**
- IBU **8**
- SRM **4**
- Style **Other Smoked Beer**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **30 min**
- Evaporation rate **10 %/h**
- Boil size **18.2 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **13.5 liter(s)**

## Steps

- Temp **63 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **10.5 liter(s)** of strike water to **69.1C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **5 min** at **76C**
- Sparge using **10.7 liter(s)** of **76C** water or to achieve **18.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt - wędzony śliwą	1 kg (33.3%)	80 %	5
Grain	Viking Wędzony czereśnią	1 kg (33.3%)	82 %	10
Grain	Pszeniczny	1 kg (33.3%)	85 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	5 g	30 min	12.6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis
lactobacillus plantarum	Ale	Culture	5 g	---

## Notes

- zakwaszanie w kotle - 48h  
*Oct 2, 2023, 8:43 AM*