

Lichtenhainer

- Gravity **8.5 BLG**
- ABV **3.3 %**
- IBU **9**
- SRM **3.7**

Batch size

- Expected quantity of finished beer **7.6 liter(s)**
- Trub loss **10 %**
- Size with trub loss **8.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **10.9 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **4.5 liter(s)**
- Total mash volume **6 liter(s)**

Steps

- Temp **65 C**, Time **30 min**
- Temp **75 C**, Time **10 min**

Mash step by step

- Heat up **4.5 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **30 min** at **65C**
- Keep mash **10 min** at **75C**
- Sparge using **7.9 liter(s)** of **76C** water or to achieve **10.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Wędzony bukiem Steinbach	1 kg (66.7%)	82 %	7
Grain	Wheat Blanc Castle Malting	0.5 kg (33.3%)	85 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zula	10 g	10 min	8.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM42 Stare Nadreńskie	Ale	Liquid	80 ml	Fermentum Mobile

Notes

- WODA: <https://www.brewersfriend.com/mash-chemistry-and-brewing-water-calculator/?id=YX26D3R>
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