

## #231 ctrl+O

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **39**
- SRM **3.5**
- Style **American Wheat or Rye Beer**

### Batch size

- Expected quantity of finished beer **27 liter(s)**
- Trub loss **7 %**
- Size with trub loss **30.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **33.3 liter(s)**

### Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

### Steps

- Temp **69 C**, Time **90 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **21 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **90 min** at **69C**
- Keep mash **10 min** at **78C**
- Sparge using **19.3 liter(s)** of **76C** water or to achieve **33.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale Maris Otter Extra 2,5-3,5 EBC Crisp	5 kg (71.4%)	80 %	3
Grain	Steinbach Malt pszeniczny	1 kg (14.3%)	80 %	4
Grain	Viking Malt owsiany	1 kg (14.3%)	61 %	5

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga PL 2022	34 g	60 min	11 %
Aroma (end of boil)	Mandarina Bavaria DE 2022	15 g	10 min	7.8 %
Aroma (end of boil)	Citra US 2021	15 g	10 min	14.2 %
Dry Hop	Citra US 2021	35 g	7 day(s)	14.2 %
Dry Hop	Mandarina Bavaria DE 2022	35 g	7 day(s)	7.8 %
Dry Hop	Mosaic US 2023	50 g	7 day(s)	12.2 %

### Yeasts

Name	Type	Form	Amount	Laboratory
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WLP066 - London Fog	Ale	Slant	80 ml	White Labs
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