

## #153 ctrl+H

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- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **38**
- SRM **4.4**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **22.7 liter(s)**
- Trub loss **6 %**
- Size with trub loss **25.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **27.5 liter(s)**

### Mash information

- Mash efficiency **74 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.1 liter(s)**
- Total mash volume **25.4 liter(s)**

### Steps

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

### Mash step by step

- Heat up **19.1 liter(s)** of strike water to **77.1C**
- Add grains
- Keep mash **90 min** at **69C**
- Keep mash **10 min** at **78C**
- Sparge using **14.8 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking pilzneński	2.1 kg (33.1%)	82 %	4
Grain	Viking pszeniczny	2.1 kg (33.1%)	83 %	5
Grain	Viking owsiany	1 kg (15.7%)	61 %	5
Grain	Viking wiedeński	0.4 kg (6.3%)	78 %	8
Grain	Płatki owsiane	0.4 kg (6.3%)	60 %	3
Grain	Słód enzymatyczny	0.2 kg (3.1%)	80 %	5
Grain	Płatki pszeniczne	0.15 kg (2.4%)	60 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle PL 2021	50 g	60 min	5.4 %
Boil	lunga PL 2021	10 g	20 min	12.4 %
Aroma (end of boil)	Mosaic US 2021	10 g	15 min	11.8 %
Dry Hop	Citra US 2020	50 g	7 day(s)	12.6 %
Dry Hop	lunga PL 2021	40 g	7 day(s)	12.4 %
Dry Hop	Mosaic US 2021	40 g	7 day(s)	11.8 %

### Yeasts

<b>Name</b>	<b>Type</b>	<b>Form</b>	<b>Amount</b>	<b>Laboratory</b>
Lallemand Verdant IPA	Ale	Slant	40 ml	Lallemand