- Gravity 12.4 BLG
- ABV **5** %
- IBU **43**
- SRM **4.3**
- Style American IPA

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 %
- Size with trub loss 25.2 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 30.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp **44 C**, Time **10 min** Temp **50 C**, Time **10 min**
- Temp 62 C, Time 30 min
- Temp 72 C, Time 10 min
 Temp 76 C, Time 10 min
 Temp 78 C, Time 2 min

Mash step by step

- Heat up 18 liter(s) of strike water to 48C
- Add grains
- Keep mash 10 min at 44C
- Keep mash 10 min at 50C
- Keep mash 30 min at 62C
- Keep mash 10 min at 72C
- Keep mash 10 min at 76C
- Keep mash 2 min at 78C • Sparge using 18.8 liter(s) of 76C water or to achieve 30.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) US	5 kg (83.3%)	79 %	4
Grain	Monachijski	0.7 kg <i>(11.7%)</i>	80 %	16
Grain	Weyermann - Carapils	0.3 kg <i>(5%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	45 g	30 min	9.5 %
Boil	Amarillo	30 g	15 min	9.5 %
Dry Hop	Amarillo	20 g	10 day(s)	9.5 %
Dry Hop	Cascade PL	50 g	10 day(s)	5.2 %

Yeasts

Name Type	Form	Amount	Laboratory
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us-05	Ale	Dry	11 g	
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Notes

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