- Gravity 17.7 BLG
- ABV ---
- IBU **75**
- SRM **7.4**
- Style American IPA

#### **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

#### **Mash information**

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 23.4 liter(s)
- Total mash volume 31.2 liter(s)

# **Steps**

- Temp 64 C, Time 60 min
  Temp 75 C, Time 10 min

## Mash step by step

- Heat up 23.4 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 10 min at 75C
- Sparge using 16.1 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	7.5 kg <i>(96.2%)</i>	85 %	7
Grain	Weyermann - Carapils	0.3 kg <i>(3.8%)</i>	78 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	20 g	60 min	12 %
Boil	Amarillo	20 g	60 min	9.5 %
Boil	Cascade	20 g	60 min	6 %
Boil	Citra	10 g	10 min	12 %
Boil	Amarillo	10 g	10 min	9.5 %
Boil	Cascade	10 g	10 min	6 %
Dry Hop	Citra	10 g	3 day(s)	12 %
Dry Hop	Amarillo	10 g	3 day(s)	9.5 %
Dry Hop	Cascade	10 g	3 day(s)	6 %
Boil	Marynka	30 g	60 min	10 %
Whirlpool	Amarillo	10 g	10 min	9.5 %
Whirlpool	Citra	10 g	10 min	12 %

Whirlpool	Cascade	10 g	10 min	6 %
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## **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis