## Five o'clock

- Gravity 16.6 BLG ABV 7 %
- IBU **65**
- SRM **5.1**
- Style American IPA

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

#### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 20.3 liter(s)
- Total mash volume 27 liter(s)

## **Steps**

- Temp **65 C**, Time **20 min** Temp **73 C**, Time **45 min**
- Temp 76 C, Time 10 min

# Mash step by step

- Heat up 20.3 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 20 min at 65C
- Keep mash 45 min at 73C
- Keep mash 10 min at 76C
- Sparge using 11.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Ireks - Pilsner Malt	3 kg <i>(44.4%)</i>	81 %	4
Grain	Ireks - Wheat Malt	2 kg <i>(29.6%)</i>	85 %	5
Grain	Crisp - Rye Malt	1 kg <i>(14.8%)</i>	63 %	10
Grain	Weyermann - Acidulated Malt	0.25 kg <i>(3.7%)</i>	80 %	6
Grain	Crisp - Naked Oat Malt	0.5 kg (7.4%)	%	2

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	30 g	40 min	17.5 %
Boil	Cascade	50 g	20 min	7.6 %
Dry Hop	Warrior	20 g	3 day(s)	17.5 %
Dry Hop	Cascade	50 g	3 day(s)	7.6 %

#### **Yeasts**

Name	Type	Form	Amount	Laboratory
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Mangrove Jack's M44 US West Coast	Dry	10 g	Mangrove Jack's
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# **Extras**

Туре	Name	Amount	Use for	Time
Other	Herbata Earl Grey	100 g	Secondary	5 day(s)