# mango

- Gravity 15.2 BLG
- ABV ----
- IBU **19**
- SRM **4**
- 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 15.6 liter(s)
- Total mash volume 20.8 liter(s)

# **Steps**

- Temp 67 C, Time 50 minTemp 72 C, Time 30 min

# Mash step by step

- Heat up 15.6 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 50 min at 67C
- Keep mash 30 min at 72C
- Sparge using 14.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg <i>(60.3%)</i>	80 %	5
Grain	Viking Wheat Malt	1 kg <i>(17.2%)</i>	83 %	5
Grain	Płatki owsiane	0.5 kg (8.6%)	85 %	3
Sugar	Milk Sugar (Lactose)	0.6 kg <i>(10.3%)</i>	76.1 %	0
Grain	Żytni	0.2 kg <i>(3.4%)</i>	%	

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	10 g	60 min	15.5 %
Aroma (end of boil)	Mosaic	30 g	1 min	12.3 %
Boil	Cascade	20 g	5 min	4 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
FM54 Gorączka kalifornijska	Ale	Liquid	20 ml	Fermentum Mobile

### **Extras**

Type Name	Amount	Use for	Time
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Spice	Kolendra - do kuchni	17 g	Boil	10 min
Flavor	Pulpa mango	1700 g	Secondary	7 day(s)