# **Sour Mango Ale**

- Gravity 15.2 BLG
- ABV 6.3 %
- IBU **11**
- SRM **4.4**
- Style Specialty Beer

### **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 16.8 liter(s)
- Total mash volume 22.4 liter(s)

### **Steps**

- Temp 67 C, Time 60 min
  Temp 78 C, Time 10 min

## Mash step by step

- Heat up 16.8 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 10 min at 78C
- Sparge using 14.1 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 kg <i>(50%)</i>	80 %	5
Grain	Wheat, Flaked	0.5 kg <i>(8.3%)</i>	77 %	4
Grain	Strzegom Pszeniczny	1.3 kg <i>(21.7%)</i>	81 %	6
Grain	Oats, Flaked	0.5 kg <i>(8.3%)</i>	80 %	2
Sugar	Milk Sugar (Lactose)	0.4 kg <i>(6.7%)</i>	76.1 %	0
Grain	Weyermann - Acidulated Malt	0.3 kg <i>(5%)</i>	80 %	6

### Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Marynka	20 g	20 min	8.8 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
FM51 Grodzie Dębowe	Ale	Liquid	10 ml	Fermentum Mobile
lactobacillus	Ale	Culture	5 g	serowar

#### **Extras**

Туре	Name	Amount	Use for	Time
Water Agent	kwas mlekowy	15 g	Mash	
Flavor	mango	3000 g	Secondary	14 day(s)