

# mangoSour IPA

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **18**
- SRM **5**
- Style **Fruit Beer**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **45 min**
- Evaporation rate **10 %/h**
- Boil size **26.9 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **30.4 liter(s)**
- Total mash volume **38 liter(s)**

## Steps

- Temp **65 C**, Time **60 min**

## Mash step by step

- Heat up **30.4 liter(s)** of strike water to **70.6C**
- Add grains
- Keep mash **60 min** at **65C**
- Sparge using **4.1 liter(s)** of **76C** water or to achieve **26.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód owsiany Fawcett	1 kg (13.2%)	61 %	5
Grain	Płatki pszeniczne	0.5 kg (6.6%)	60 %	3
Grain	Płatki owsiane	0.7 kg (9.2%)	60 %	3
Grain	Viking Pale Ale malt	5.3 kg (69.7%)	80 %	5
Grain	Weyermann - Acidulated Malt	0.1 kg (1.3%)	80 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	30 g	10 min	9.5 %
Boil	Sabro	10 g	30 min	13.3 %
Dry Hop	Amarillo	60 g	7 day(s)	9.5 %
Whirlpool	Sabro	50 g	0 min	15 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	200 ml	Fermentis

## Extras

Type	Name	Amount	Use for	Time
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Flavor	pulpa mango	1000 g	Secondary	7 day(s)
Flavor	laktoza	500 g	Boil	10 min
Other	Bakterie kwasu mlekowego Lactobacillus Plantarum	7 g	Primary	2 day(s)