

# Mango Milkshake 2024

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- Gravity **9.5 BLG**
- ABV **3.7 %**
- IBU **39**
- SRM **3.3**
- Style **Fruit Beer**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **6 %**
- Size with trub loss **27.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **33 liter(s)**

## Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

## Steps

- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **13.5 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **24 liter(s)** of **76C** water or to achieve **33 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg (77.8%)	80 %	5
Grain	Strzegom Pszeniczny	1 kg (22.2%)	81 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	15 g	60 min	7.1 %
Boil	Citra+Mosaic	20 g	15 min	12.1 %
Boil	Citra+Mosaic	30 g	10 min	12.1 %
Boil	Citra+Mosaic	50 g	2 min	12.2 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM54 Gorączka kalifornijska	Ale	Slant	1000 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Flavor	Laktoza	700 g	Boil	15 min

Flavor	Pulpa Mango	1275 g	Primary	19 day(s)
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