

# Mango Milkshake

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- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **48**
- SRM **3.5**
- 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 **15 liter(s)**
- Total mash volume **20 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 **15 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 **23 liter(s)** of **76C** water or to achieve **33 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (80%)	80 %	5
Grain	Strzegom Pszeniczny	1 kg (20%)	81 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	33 g	60 min	13.7 %
Boil	Citra	25 g	3 min	12 %
Boil	Mosaic	25 g	3 min	10 %
Whirlpool	Citra i Mosaic	50 g	15 min	1 %

## Extras

Type	Name	Amount	Use for	Time
Flavor	Laktoza	500 g	Boil	15 min
Flavor	Pulpa Mango	1000 g	Primary	19 day(s)