

# Mango Milkshake IPA

- Gravity **17.1 BLG**
- ABV **7.3 %**
- IBU **38**
- SRM **3.8**
- 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 **86 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.3 liter(s)**
- Total mash volume **19 liter(s)**

## Steps

- Temp **68 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **14.3 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **15.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg (65.1%)	90 %	5
Grain	Płatki pszeniczne	0.625 kg (11.6%)	85 %	3
Grain	Płatki owsiane	0.625 kg (11.6%)	85 %	3
Sugar	Milk Sugar (Lactose)	0.625 kg (11.6%)	76.1 %	0

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	15 g	60 min	13.2 %
Boil	Simcoe	25 g	10 min	13.2 %
Whirlpool	Eureka!	30 g	10 min	18 %
Dry Hop	Equinox	50 g	5 day(s)	13.1 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11.5 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Flavor	Puree Mango	1000 g	Secondary	5 day(s)