

# Milkshake IPA Marakuja Mango

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **29**
- SRM **3.5**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **22.2 liter(s)**
- Total mash volume **27.8 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **22.2 liter(s)** of strike water to **71.8C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **5 min** at **78C**
- Sparge using **13.4 liter(s)** of **76C** water or to achieve **30 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilznieński	4 kg (72.1%)	81 %	4
Grain	Pszeniczny	1.15 kg (20.7%)	85 %	4
Grain	Płatki owsiane	0.4 kg (7.2%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	11 %
Boil	Motueka	40 g	10 min	7 %
Whirlpool	Motueka	20 g	20 min	7 %
Dry Hop	Motueka	40 g	3 day(s)	7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Safale

## Extras

Type	Name	Amount	Use for	Time
Flavor	laktoza	500 g	Boil	10 min
Flavor	pulpa mango	800 g	Primary	2 day(s)

Flavor	pulpa marakuja	800 g	Primary	2 day(s)
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