

Milkshake Mango IPA

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **60**
- SRM **4.3**
- Style **Fruit Beer**

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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **62 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **50 min** at **62C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **13.3 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	4 kg (66.7%)	80 %	5
Grain	Płatki owsiane	1 kg (16.7%)	85 %	3
Grain	Płatki pszeniczne	1 kg (16.7%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	40 g	60 min	10.4 %
Boil	Ekuanot	20 g	10 min	16.1 %
Aroma (end of boil)	Mosaic	20 g	10 min	10 %
Aroma (end of boil)	Ekuanot	10 g	0 min	16.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
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Flavor	Laktoza	500 g	Boil	20 min
Flavor	Pulpa z mango	850 g	Secondary	4 day(s)