

Alfons Milkshake Mango Pale Ale

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **23**
- SRM **4.4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **28.6 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **29.7 liter(s)**

Steps

- Temp **63 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **23.1 liter(s)** of strike water to **69.1C**
- Add grains
- Keep mash **45 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **12.1 liter(s)** of **76C** water or to achieve **28.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (75.8%)	80 %	5
Grain	Pszeniczny	1 kg (15.2%)	85 %	4
Grain	Płatki owsiane	0.6 kg (9.1%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galaxy	10 g	60 min	16 %
Boil	Galaxy	10 g	15 min	16 %
Whirlpool	Galaxy	30 g	0 min	16 %

Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Slant	50 ml	---

Extras

Type	Name	Amount	Use for	Time
Flavor	Pulpa mango	3400 g	Secondary	6 day(s)

Flavor	Laktoza	175 g	Boil	10 min
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