

# Barley Wine z dodatkiem mango, pigwy i wanilii

- Gravity **23.6 BLG**
- ABV **10.8 %**
- IBU **37**
- SRM **11.1**
- Style **American Barleywine**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **29.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.7 liter(s)**
- Total mash volume **26.2 liter(s)**

## Steps

- Temp **55 C**, Time **12 min**
- Temp **65 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **19.7 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **12 min** at **55C**
- Keep mash **60 min** at **65C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **16.4 liter(s)** of **76C** water or to achieve **29.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3 kg (30.8%)	79 %	6
Grain	Karmelowy Jasny 30EBC	0.5 kg (5.1%)	75 %	30
Grain	Wiedeński	0.5 kg (5.1%)	79 %	12
Grain	Monachijski typ II	0.75 kg (7.7%)	79 %	22
Grain	Carmel Pils	0.25 kg (2.6%)	75 %	5
Grain	Caraamber	0.25 kg (2.6%)	75 %	80
Grain	Bestmalz Red X	0.5 kg (5.1%)	79 %	30
Grain	Płatki owsiane	0.4 kg (4.1%)	85 %	3
Grain	Płatki jęczmienne	0.4 kg (4.1%)	85 %	3
Sugar	Cukier kandyzowany	0.5 kg (5.1%)	--- %	---
Dry Extract	Ekstrakt słodowy jasny	1 kg (10.3%)	80 %	---
Liquid Extract	Ekstrakt słodowy pszeniczny	1.7 kg (17.4%)	80 %	30

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	10 g	35 min	8.8 %
Boil	Amarillo	10 g	20 min	8.8 %
Boil	Citra	10 g	20 min	13.5 %
Boil	Azacca	5 g	20 min	14 %
Boil	Amarillo	18 g	15 min	8.8 %
Boil	Citra	11 g	15 min	13.5 %
Boil	Azacca	20 g	15 min	14 %
Boil	Mosaic	10 g	15 min	12 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	22 g	Fermentis

### Extras

Type	Name	Amount	Use for	Time
Fining	Whirlfloc	2 g	Boil	8 min
Flavor	Mango suszone	300 g	Secondary	60 day(s)
Flavor	Pigwa suszona	200 g	Secondary	60 day(s)
Flavor	Laski wanilii 3 szt.	9 g	Secondary	60 day(s)