

# Wajcen mango

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **9**
- SRM **4.8**
- Style **Weizen/Weissbier**

## Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **23.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **21 liter(s)**

## Steps

- Temp **45 C**, Time **15 min**
- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **16.8 liter(s)** of strike water to **48.1C**
- Add grains
- Keep mash **15 min** at **45C**
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **23.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	2 kg (47.6%)	85 %	4
Grain	Pilznieński	2 kg (47.6%)	81 %	4
Grain	Carawheat (GR)	0.2 kg (4.8%)	68 %	79

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	7 g	60 min	11 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Liquid	100 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Other	Pulpa Mango	10000 g	Secondary	7 day(s)