

# #MangoAPA

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **19**
- SRM **5.9**
- Style **Fruit Beer**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.9 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.3 liter(s)**
- Total mash volume **24.8 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **19.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **17.1 liter(s)** of **76C** water or to achieve **30.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (36.4%)	80 %	2
Grain	Weyermann Monachijski typ II 20-25 EBC	2.5 kg (45.5%)	80 %	20
Grain	Viking Wheat Malt	0.7 kg (12.7%)	83 %	5
Grain	Płatki owsiane błyskawiczne	0.3 kg (5.5%)	60 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade USA szyszka	10 g	50 min	5 %
Boil	Chinook PL szyszka	10 g	50 min	10 %
Aroma (end of boil)	Cascade USA szyszka	20 g	5 min	5 %
Aroma (end of boil)	Chinook PL szyszka	20 g	5 min	10 %
Dry Hop	Mosaic	30 g	7 day(s)	12.8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
US -05	Ale	Dry	11.5 g	fermentis
S - 04	Ale	Slant	700 ml	fermentis

### Extras

Type	Name	Amount	Use for	Time
Fining	whirlfloc	5 g	Boil	10 min
Flavor	mango pulpa	2125 g	Secondary	7 day(s)
Flavor	wiśnie mrożone, maliny mrożone	1850 g	Secondary	7 day(s)

### Notes

- Fermentor I z us-05 temp. 20 st. ( 15 l )  
Fermentor II z s-04 temp. 14 st. ( 15 l )

Przelewanie na cichą po 5 dniach:  
Fermentor z us-05 3 BLG  
Fermentor z s-04 4 BLG

Dodatek pulpy mango 2125 g oraz 30 g chmielu Mosaic do Fermentora I .  
Dodatek wiśni 1350 g i malin 500 g do Fermentora II  
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