

## Sour mango apa

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **17**
- SRM **3.9**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **23.6 liter(s)**
- Total mash volume **29.5 liter(s)**

### Steps

- Temp **65 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **1 min**

### Mash step by step

- Heat up **23.6 liter(s)** of strike water to **70.6C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **10 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **14 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (84.7%)	80 %	5
Grain	Pszeniczny	0.5 kg (8.5%)	85 %	4
Grain	Płatki owsiane	0.4 kg (6.8%)	85 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	15 g	60 min	13.2 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Kveik skare gestwa	Ale	Slant	15 ml	Moje

### Extras

Type	Name	Amount	Use for	Time
Other	mango	1700 g	Secondary	7 day(s)
Flavor	Laktoza	600 g	Boil	10 min
Flavor	Kwas mlekowy	0.1 g	Boil	0 min