APA Mango Cascade

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **17**
- SRM **7.1**
- Style American IPA

Batch size

- Expected quantity of finished beer 9.5 liter(s)
- Trub loss 5 %
- Size with trub loss 10 liter(s)
- · Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 12.2 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 6.7 liter(s)
- Total mash volume 8.9 liter(s)

Steps

- Temp 55 C, Time 5 min
 Temp 64 C, Time 25 min
 Temp 72 C, Time 25 min

- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 6.7 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 5 min at 55C
- · Keep mash 25 min at 64C
- Keep mash 25 min at 72C
- Keep mash 5 min at 76C
- Sparge using 7.7 liter(s) of 76C water or to achieve 12.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	2 kg (90.1%)	82 %	4
Grain	Strzegom Karmel 150	0.15 kg <i>(6.8%)</i>	75 %	150
Grain	Viking Wheat Malt	0.07 kg <i>(3.2%)</i>	83 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade PL	4 g	60 min	5.5 %
Boil	Cascade PL	4 g	30 min	5.5 %
Aroma (end of boil)	Cascade PL	9 g	15 min	5.5 %
Whirlpool	Cascade PL	14 g	5 min	5.5 %
Dry Hop	Cascade PL	17 g	5 day(s)	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Other	Mango Pulp Alphonso	450 g	Secondary	9 day(s)
Other	Passion fruit	170 g	Secondary	5 day(s)