

# APA

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- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **41**
- SRM **4.2**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

## Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **2.8 liter(s) / kg**
- Mash size **14.8 liter(s)**
- Total mash volume **20.1 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**

## Mash step by step

- Heat up **14.8 liter(s)** of strike water to **76.6C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **16.9 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (75.5%)	80 %	5
Grain	Viking Wheat Malt	1 kg (18.9%)	83 %	5
Grain	Viking Carabody Malt	0.3 kg (5.7%)	80 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	20 g	40 min	6 %
Whirlpool	Amarillo	50 g	15 min	9.5 %
Whirlpool	Citra	50 g	15 min	12 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Lallemand - LalBrew Verdant IPA	Ale	Dry	11 g	Lallemand

## Notes

- Receptura od Homebrewing  
Fermentacja burzliwa - około 10 dni  
Fermentacja cicha - około 10 dni  
May 30, 2024, 10:33 PM