

## APA (SMaSH PA&Euqanot)

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **13**
- SRM **5.2**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

### Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **10 liter(s)**
- Total mash volume **14 liter(s)**

### Steps

- Temp **65 C**, Time **30 min**
- Temp **72 C**, Time **30 min**

### Mash step by step

- Heat up **10 liter(s)** of strike water to **74C**
- Add grains
- Keep mash **30 min** at **65C**
- Keep mash **30 min** at **72C**
- Sparge using **13 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale (W)	4 kg (100%)	85 %	7

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	20 g	40 min	4 %
Aroma (end of boil)	Lublin (Lubelski)	10 g	10 min	4 %

### Yeasts

Name	Type	Form	Amount	Laboratory
yeast 39	Ale	Dry	7.5 g	Wyeast Labs

### Extras

Type	Name	Amount	Use for	Time
Fining	whirfloc	1 g	Boil	10 min