

Single Hop APA - podebrany od kogoś

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **29**
- SRM **4.1**
- 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 **80 min**
- Evaporation rate **10 %/h**
- Boil size **32.6 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.4 liter(s)**
- Total mash volume **23.6 liter(s)**

Steps

- Temp **65 C**, Time **40 min**
- Temp **72 C**, Time **15 min**
- Temp **77 C**, Time **5 min**

Mash step by step

- Heat up **18.4 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **40 min** at **65C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **19.5 liter(s)** of **76C** water or to achieve **32.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4.7 kg (89.5%)	81 %	4
Grain	Monachijski	0.3 kg (5.7%)	80 %	20
Grain	Carabelge	0.25 kg (4.8%)	74 %	32.5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	10 g	60 min	11.4 %
Boil	Mosaic	10 g	30 min	11.4 %
Boil	Mosaic	20 g	15 min	11.4 %
Aroma (end of boil)	Mosaic	30 g	0 min	11.4 %
Dry Hop	Mosaic	30 g	4 day(s)	11.4 %

Yeasts

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