

APA

- Gravity **9.3 BLG**
- ABV **3.6 %**
- IBU **41**
- SRM **3.8**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **18.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.4 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **11.4 liter(s)**
- Total mash volume **14.6 liter(s)**

Steps

- Temp **70 C**, Time **60 min**

Mash step by step

- Heat up **11.4 liter(s)** of strike water to **77.1C**
- Add grains
- Keep mash **60 min** at **70C**
- Sparge using **16.3 liter(s)** of **76C** water or to achieve **24.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg (92.3%)	81 %	4
Grain	Biscuit Malt	0.25 kg (7.7%)	79 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Iunga	32 g	60 min	10 %
Dry Hop	El Dorado	100 g	3 day(s)	15 %
Dry Hop	Amarillo	50 g	3 day(s)	9.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
WLP002 - English Ale Yeast	Ale	Slant	100 ml	---