

Piwo Apa

- Gravity **13.9 BLG**
- ABV ---
- IBU **42**
- SRM **7.7**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **21.6 liter(s)**

Steps

- Temp **67 C**, Time **60 min**

Mash step by step

- Heat up **16.8 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **13.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4.5 kg (93.8%)	85 %	7
Grain	Weyermann - Carared	0.3 kg (6.3%)	75 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Enigma (AUS)	10 g	60 min	17.2 %
Boil	Enigma (AUS)	10 g	18 min	17.2 %
Boil	Enigma (AUS)	10 g	10 min	17.2 %
Boil	Vic Secret (AUS)	10 g	5 min	16.1 %
Boil	Vic Secret (AUS)	20 g	0 min	16.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
05	Ale	Dry	11 g	---