

APA

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **27**
- SRM **6.3**
- 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 **60 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.3 liter(s)**
- Total mash volume **24.4 liter(s)**

Steps

- Temp **66 C**, Time **30 min**
- Temp **68 C**, Time **40 min**

Mash step by step

- Heat up **18.3 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **30 min** at **66C**
- Keep mash **40 min** at **68C**
- Sparge using **13.1 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	5 kg (82%)	85 %	7
Grain	Weyermann - Pale Wheat Malt	0.6 kg (9.8%)	85 %	5
Grain	Carahell	0.5 kg (8.2%)	77 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	15 g	60 min	13.2 %
Boil	Citra	5 g	30 min	13.2 %
Aroma (end of boil)	Mosaic	50 g	0 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Slant	100 ml	---