

P.41 - Fruit APA

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **30**
- SRM **4.2**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **30 min**
- Evaporation rate **11 %/h**
- Boil size **25.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.9 liter(s)**
- Total mash volume **19.8 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **14.9 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **1 min** at **78C**
- Sparge using **15.6 liter(s)** of **76C** water or to achieve **25.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Oats, Flaked	1.8 kg (36.4%)	80 %	2
Grain	Weyermann - Pale Ale Malt	1.35 kg (27.3%)	85 %	7
Grain	Weyermann - Light Munich Malt	0.7 kg (14.1%)	82 %	14
Grain	Weyermann - Carapils	0.7 kg (14.1%)	78 %	4
Grain	Weyermann - Pilsner Malt	0.4 kg (8.1%)	81 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Whirlpool	Cascade	30 g	20 min	5.8 %
Whirlpool	Mosaic	35 g	20 min	10 %
Whirlpool	Ella (AUS)	20 g	20 min	14.6 %
Whirlpool	Magnum	10 g	20 min	11.1 %
Dry Hop	Mosaic	200 g	5 day(s)	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
------	------	------	--------	------------

Danstar - BRY-97	Ale	Dry	22 g	Danstar
------------------	-----	-----	------	---------

Extras

Type	Name	Amount	Use for	Time
Flavor	Jagody	900 g	Primary	7 day(s)

Notes

- Woda do zacierania 15 L.
 - Kwas mlekowy - 2,4 ml
 - Chlorek wapnia (CaCl₂) - 1,5 g
 - Gips piwowarski (CaSO₄) - 2,6 g
 - Sól epsom (MgSO₄) - 2,3 g
 - Woda do wysładzania 24 l
 - Kwas mlekowy - 3,8 ml
 - Chlorek wapnia (CaCl₂) - 2,4 g
 - Gips piwowarski (CaSO₄) - 4,1 g
 - Sól epsom (MgSO₄) - 3,6 g
- Feb 7, 2023, 6:30 PM*