

Citrusy APA 12'

- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **51**
- SRM **3.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **24 liter(s)**
- Boil time **70 min**
- Evaporation rate **18 %/h**
- Boil size **31.5 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.9 liter(s)**
- Total mash volume **17.2 liter(s)**

Steps

- Temp **65 C**, Time **70 min**

Mash step by step

- Heat up **12.9 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **70 min** at **65C**
- Sparge using **22.9 liter(s)** of **76C** water or to achieve **31.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.5 kg (58.1%)	80 %	5
Grain	Strzegom Pilzneński	1.3 kg (30.2%)	80 %	4
Grain	Pszeniczny	0.5 kg (11.6%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	10 g	60 min	13 %
Boil	Citra	30 g	10 min	12 %
Boil	Cascade	30 g	10 min	6 %
Whirlpool	Chinook	40 g	20 min	13 %
Dry Hop	Cascade	50 g	2 day(s)	6 %
Dry Hop	Centennial	40 g	2 day(s)	10.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	800 ml	Fermentum Mobile

Extras

Type	Name	Amount	Use for	Time
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Water Agent	kwas mlekowy	3 g	Mash	---
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