

## Session APA v2

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- Gravity **9 BLG**
- ABV **3.5 %**
- IBU **26**
- SRM **3.3**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

### Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **6 liter(s) / kg**
- Mash size **24 liter(s)**
- Total mash volume **28 liter(s)**

### Steps

- Temp **60 C**, Time **0 min**
- Temp **71 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **24 liter(s)** of strike water to **63.3C**
- Add grains
- Keep mash **0 min** at **60C**
- Keep mash **70 min** at **71C**
- Keep mash **10 min** at **78C**
- Sparge using **11.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	1 kg (25%)	79 %	6
Grain	Żytni	1 kg (25%)	85 %	8
Grain	Oats, Flaked	1 kg (25%)	80 %	2
Grain	Weyermann - Vienna Malt	0.5 kg (12.5%)	81 %	8
Grain	Pszeniczny	0.5 kg (12.5%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Columbus/Tomahawk/Zeus	15 g	100 min	15.5 %
Whirlpool	Mosaic	30 g	30 min	10 %
Whirlpool	Cascade	30 g	30 min	6 %
Whirlpool	Centennial	30 g	30 min	9.7 %
Dry Hop	Cascade	25 g	7 day(s)	7.1 %
Dry Hop	Simcoe	25 g	7 day(s)	13.2 %
Dry Hop	Centennial	25 g	7 day(s)	9.7 %

### Yeasts

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

Name	Type	Form	Amount	Laboratory
Vermont Ale	Ale	Liquid	90 ml	Yeast Bay

### Notes

- Hopstand 30min w 80st C.  
Modyfikacja wody RO: XBDMX98  
*Oct 13, 2017, 2:21 PM*