

CERVUS APA CASCADE SINGLE HOP

- Gravity **13.1 BLG**
- ABV ---
- IBU **39**
- SRM **12.7**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **30.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.1 liter(s)**
- Total mash volume **21.5 liter(s)**

Steps

- Temp **68 C**, Time **70 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **16.1 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **5 min** at **78C**
- Sparge using **20.1 liter(s)** of **76C** water or to achieve **30.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	2.5 kg (46.5%)	80 %	6
Grain	Strzegom Wiedeński	1.25 kg (23.2%)	80 %	10
Grain	Strzegom Monachijski typ II	1.25 kg (23.2%)	80 %	22
Grain	Strzegom Karmel 150	0.38 kg (7.1%)	80 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	50 g	50 min	6 %
Boil	Cascade	50 g	10 min	6 %
Boil	Cascade	28 g	1 min	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	11 ml	Fermentum Mobile