

Centennial APA

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **41**
- SRM **10.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Liquid Extract	Bruntal ekstrakt słodowy Pale Ale	3.4 kg (100%)	82 %	35

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga PL 12,9% AA	20 g	60 min	12.9 %
Boil	Centennial USA 10,2% AA	10 g	15 min	10.2 %
Boil	Centennial USA 10,2% AA	10 g	10 min	10.2 %
Aroma (end of boil)	Centennial USA 10,2% AA	10 g	5 min	10.2 %
Dry Hop	Centennial USA 10,2% AA	70 g	4 day(s)	10.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Safale