

APA Maćkowa

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **72**
- SRM **9.2**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Liquid Extract	Bruntal	3.4 kg (100%)	81 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	15 g	60 min	11.5 %
Boil	Centennial	15 g	60 min	9.7 %
Boil	Amarillo	20 g	60 min	7.1 %
Aroma (end of boil)	Simcoe	25 g	5 min	11.5 %
Aroma (end of boil)	Centennial	25 g	5 min	9.7 %
Aroma (end of boil)	Amarillo	25 g	5 min	7.1 %

Yeasts

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