

## APA #4

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- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **22**
- SRM **3.8**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **550 liter(s)**
- Trub loss **5 %**
- Size with trub loss **583 liter(s)**
- Boil time **60 min**
- Evaporation rate **2 %/h**
- Boil size **622.7 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **367.5 liter(s)**
- Total mash volume **472.5 liter(s)**

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	75 kg (71.4%)	81 %	7
Grain	Płatki owsiane	15 kg (14.3%)	60 %	3
Grain	Płatki pszeniczne	15 kg (14.3%)	60 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Whirlpool	Rakau (NZ)	1000 g	15 min	10.2 %
Whirlpool	Kohatu	1000 g	3 min	6.5 %
Boil	CTZ	180 g	60 min	10.7 %