

APA

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **28**
- SRM **3.8**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **10 %**
- Size with trub loss **26.4 liter(s)**
- Boil time **75 min**
- Evaporation rate **10 %/h**
- Boil size **31.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.9 liter(s)**
- Total mash volume **13.2 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Liquid Extract	Liquid Extract (LME) - Pilsner	1.7 kg (34%)	78 %	8
Grain	Viking Pilsner malt	3 kg (60%)	82 %	4
Grain	Weyermann - Carapils	0.3 kg (6%)	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Iunga	20 g	60 min	11 %
Boil	Centennial	20 g	10 min	10.5 %

Yeasts

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