

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **58**
- SRM **3.8**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **48 liter(s)**
- Trub loss **5 %**
- Size with trub loss **55.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **68.9 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **5 liter(s) / kg**
- Mash size **62.5 liter(s)**
- Total mash volume **75 liter(s)**

Steps

- Temp **70 C**, Time **60 min**

Mash step by step

- Heat up **62.5 liter(s)** of strike water to **75C**
- Add grains
- Keep mash **60 min** at **70C**
- Sparge using **18.9 liter(s)** of **76C** water or to achieve **68.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	12.5 kg (100%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	50 g	60 min	12.8 %
Boil	Perle	100 g	60 min	6.2 %
Boil	Citra	50 g	10 min	12.8 %

Yeasts

Name	Type	Form	Amount	Laboratory
Farmgarden	Ale	Dry	23 g	---