

QAPA #1

- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **49**
- SRM **8.9**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **0 %**
- Size with trub loss **12.4 liter(s)**
- Boil time **45 min**
- Evaporation rate **12 %/h**
- Boil size **15.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **7.5 liter(s)**
- Total mash volume **10 liter(s)**

Steps

- Temp **66 C**, Time **75 min**
- Temp **75 C**, Time **10 min**

Mash step by step

- Heat up **7.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **75 min** at **66C**
- Keep mash **10 min** at **75C**
- Sparge using **10.5 liter(s)** of **76C** water or to achieve **15.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale Malt	2.3 kg (92%)	80 %	15
Grain	CHÂTEAU ABBEY®	0.2 kg (8%)	78 %	116

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	15 g	30 min	13 %
Boil	Mosaic (HBC 369)	10 g	15 min	12.25 %
Boil	Citra	10 g	10 min	12 %
Boil	Citra	15 g	0 min	12 %
Boil	Mosaic (HBC 369)	15 g	0 min	12.25 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM53 Voss kveik	Ale	Liquid	30 ml	FM

Extras

Type	Name	Amount	Use for	Time
Water Agent	Gips (Calcium Sulfate)	5.27 g	Mash	60 min

Water Agent	Siarczan Magnezu (MgSO4)	4.69 g	Mash	60 min
Water Agent	Chlorek Wapnia	2.88 g	Mash	60 min
Water Agent	Phosphoric Acid 85%	2.2 g	Mash	60 min
Water Agent	Sól	1.24 g	Mash	60 min