

Nati

- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **69**
- SRM **3.8**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **7.5 %**
- Size with trub loss **21.5 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **26.2 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **7 liter(s) / kg**
- Mash size **32.2 liter(s)**
- Total mash volume **36.8 liter(s)**

Steps

- Temp **68 C**, Time **60 min**

Mash step by step

- Heat up **32.2 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **-1.4 liter(s)** of **76C** water or to achieve **26.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	4.6 kg (100%)	81 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	60 g	60 min	10 %