

- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **21**
- SRM **2.4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **65 C**, Time **60 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **70.6C**
- Add grains
- Keep mash **60 min** at **65C**
- Sparge using **18.2 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	4 kg (88.9%)	80.5 %	2
Grain	Vienna Malt	0.5 kg (11.1%)	78 %	8

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	13 g	60 min	10 %
Boil	Mosaic	13 g	15 min	10 %
Boil	Mosaic	13 g	5 min	10 %
Aroma (end of boil)	Mosaic	75 g	0 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Slant	200 ml	Danstar

Extras

Type	Name	Amount	Use for	Time
Water Agent	5.2 Stabiliser	15 g	Mash	60 min
Fining	Protafloc	4 g	Boil	15 min