

- Gravity **14.3 BLG**
- ABV ---
- IBU **46**
- SRM **35.5**
- Style **American Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

Steps

- Temp **55 C**, Time **10 min**
- Temp **67 C**, Time **50 min**

Mash step by step

- Heat up **16.5 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **10 min** at **55C**
- Keep mash **50 min** at **67C**
- Sparge using **15.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	5 kg (90.9%)	80 %	7
Grain	Carafa II	0.5 kg (9.1%)	70 %	812

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	30 g	50 min	13.2 %
Aroma (end of boil)	Simcoe	10 g	10 min	13.2 %
Dry Hop	Pacifica (NZ)	20 g	7 day(s)	4.8 %

Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Slant	150 ml	fermentis