

Single hop IPA

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **42**
- SRM **4.2**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **13.1 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.8 liter(s)**
- Total mash volume **12.6 liter(s)**

Steps

- Temp **65 C**, Time **60 min**
- Temp **77 C**, Time **1 min**

Mash step by step

- Heat up **9.8 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **1 min** at **77C**
- Sparge using **6.1 liter(s)** of **76C** water or to achieve **13.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.8 kg (100%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	summit	10 g	55 min	12 %
Aroma (end of boil)	summit	15 g	5 min	12 %
Whirlpool	summit	20 g	10 min	12 %
Dry Hop	summit	45 g	3 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11 g	Fermentis