

IPA

- Gravity **14 BLG**
- ABV ---
- IBU **66**
- SRM **4.8**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **90 min**
- Evaporation rate **5 %/h**
- Boil size **31 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.4 liter(s)**
- Total mash volume **25.8 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **19.4 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **18.1 liter(s)** of **76C** water or to achieve **31 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (62%)	80 %	5
Grain	Weyermann - Carapils	0.5 kg (7.8%)	78 %	4
Grain	Weyermann - Carared	0.2 kg (3.1%)	75 %	45
Grain	Pilzneński	1.75 kg (27.1%)	81 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	30 g	60 min	15.5 %
Boil	Citra	30 g	20 min	12 %
Boil	Citra	15 g	5 min	12 %
Aroma (end of boil)	Citra	15 g	1 min	12 %
Dry Hop	Mosaic	30 g	4 day(s)	12 %
Dry Hop	Citra	30 g	3 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
------	------	------	--------	------------

Safale US-05	Ale	Slant	100 ml	Fermentis
--------------	-----	-------	--------	-----------