

IPA

- Gravity **14.7 BLG**
- ABV ---
- IBU **49**
- SRM **4.9**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **27.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **63 C**, Time **60 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **0 min** at **78C**
- Sparge using **15.9 liter(s)** of **76C** water or to achieve **27.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	4 kg (66.7%)	81 %	5
Grain	Weyermann - Carapils	1 kg (16.7%)	78 %	4
Grain	Rice, Flaked	1 kg (16.7%)	70 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sorachi Ace	20 g	60 min	13.8 %
Boil	Sorachi Ace	30 g	15 min	13.8 %
Dry Hop	Sorachi Ace	20 g	7 day(s)	13.8 %
Dry Hop	Sorachi Ace	30 g	3 day(s)	13.8 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
------	------	--------	---------	------

Herb	herbata sencha	100 g	Secondary	1 day(s)
------	----------------	-------	-----------	----------