

Birthday Boy IPA

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **55**
- SRM **5.8**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.6 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **77 C**, Time **10 min**

Mash step by step

- Heat up **15.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **77C**
- Sparge using **7.9 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (67.4%)	80 %	5
Grain	Oats, Flaked	1 kg (22.5%)	80 %	2
Grain	Weyermann - Carared	0.25 kg (5.6%)	75 %	45
Grain	Carahell	0.2 kg (4.5%)	77 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	10 g	60 min	15.5 %
Aroma (end of boil)	Simcoe	45 g	10 min	13.2 %
Aroma (end of boil)	Simcoe	15 g	5 min	13.2 %
Dry Hop	Columbus/Tomahawk/Zeus	20 g	4 day(s)	15.5 %
Dry Hop	Simcoe	30 g	4 day(s)	13.2 %

Yeasts

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