

## #13 Sabro IPA

---

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **47**
- SRM **4.1**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **0 %**
- Size with trub loss **25 liter(s)**
- Boil time **60 min**
- Evaporation rate **1 %/h**
- Boil size **27.7 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

### Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **10 min**

### Mash step by step

- Heat up **21 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **10 min** at **72C**
- Sparge using **13.7 liter(s)** of **76C** water or to achieve **27.7 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	7 kg (100%)	82 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sabro	20 g	60 min	13 %
Boil	Sabro	15 g	30 min	13 %
Boil	Sabro	60 g	5 min	13 %
Aroma (end of boil)	Sabro	50 g	0 min	13 %
Whirlpool	Sabro	55 g	0 min	13 %
Dry Hop	Sabro	100 g	4 day(s)	13 %

### Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	11 g	Safale

### Extras

Type	Name	Amount	Use for	Time
Fining	Mech irlandzki	5 g	Boil	10 min