

## brut ipa test 2

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- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **17**
- SRM **3.1**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **17 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **21.6 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

### Steps

- Temp **50 C**, Time **5 min**
- Temp **64 C**, Time **70 min**
- Temp **76 C**, Time **5 min**

### Mash step by step

- Heat up **14 liter(s)** of strike water to **54.3C**
- Add grains
- Keep mash **5 min** at **50C**
- Keep mash **70 min** at **64C**
- Keep mash **5 min** at **76C**
- Sparge using **11.6 liter(s)** of **76C** water or to achieve **21.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilsner Malz Best	3.5 kg (87.5%)	81 %	3
Grain	Weizenmalz Best	0.3 kg (7.5%)	82 %	4
Grain	Carapils Best	0.1 kg (2.5%)	75 %	5
Grain	Rice, Flaked	0.1 kg (2.5%)	70 %	2

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Blanc	5 g	60 min	11 %
Whirlpool	Nelson Sauvín	25 g	20 min	10.7 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast - 1728 Scottish Ale	Ale	Liquid	200 ml	Wyeast Labs

### Extras

Type	Name	Amount	Use for	Time
Other	glukoamylaza	4 g	Mash	60 min