

# garbage ipa

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **56**
- SRM **7.7**
- Style **Red IPA**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **21.6 liter(s)**

## Mash information

- Mash efficiency **77 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **20.3 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **15.8 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **5 min** at **76C**
- Sparge using **10.3 liter(s)** of **76C** water or to achieve **21.6 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount        | Yield | EBC |
|-------|-----------------------------|---------------|-------|-----|
| Grain | Simpsons - Maris Otter      | 4 kg (88.9%)  | 81 %  | 6   |
| Grain | Weyermann - Melanoiden Malt | 0.1 kg (2.2%) | 81 %  | 80  |
| Grain | Simpsons - Caramalt         | 0.4 kg (8.9%) | 76 %  | 69  |

## Hops

| Use for             | Name               | Amount | Time     | Alpha acid |
|---------------------|--------------------|--------|----------|------------|
| Boil                | Magnat             | 20 g   | 60 min   | 11.2 %     |
| Boil                | Tomyski            | 25 g   | 60 min   | 3.8 %      |
| Aroma (end of boil) | Tomyski            | 25 g   | 1 min    | 3.8 %      |
| Aroma (end of boil) | East Kent Goldings | 40 g   | 1 min    | 4.7 %      |
| Aroma (end of boil) | Fuggles            | 58 g   | 1 min    | 5 %        |
| Dry Hop             | zula               | 100 g  | 3 day(s) | 7 %        |
| Boil                | lunga              | 10 g   | 60 min   | 10 %       |

## Yeasts

| Name                      | Type | Form  | Amount | Laboratory |
|---------------------------|------|-------|--------|------------|
| wyeast west yorkshire ale | Ale  | Slant | 300 ml | ---        |