

## #? Hoppy Sour

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- Gravity **10.5 BLG**
- ABV **4.2 %**
- IBU **2**
- SRM **3.7**
- Style **American Wheat or Rye Beer**

### Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14.5 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4.5 liter(s) / kg**
- Mash size **10.3 liter(s)**
- Total mash volume **12.6 liter(s)**

### Steps

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

### Mash step by step

- Heat up **10.3 liter(s)** of strike water to **72.2C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **6.5 liter(s)** of **76C** water or to achieve **14.5 liter(s)** of wort

### Fermentables

| Type  | Name                      | Amount         | Yield  | EBC |
|-------|---------------------------|----------------|--------|-----|
| Grain | BESTMALZ - Bestt Pale Ale | 1.5 kg (65.2%) | 80.5 % | 6   |
| Grain | Pszeniczny                | 0.8 kg (34.8%) | 85 %   | 4   |

### Hops

| Use for   | Name          | Amount | Time     | Alpha acid |
|-----------|---------------|--------|----------|------------|
| Whirlpool | Nelson Sauvín | 50 g   | 1 min    | 11 %       |
| Dry Hop   | Mosaic        | 100 g  | 3 day(s) | 10 %       |

### Yeasts

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

### Extras

| Type  | Name         | Amount | Use for | Time   |
|-------|--------------|--------|---------|--------|
| Other | Kwas mlekowy | 1.2 g  | Mash    | 60 min |