

## wiena beer

- Gravity **12.9 BLG**
- ABV ---
- IBU **24**
- SRM **10.6**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **29.5 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

### Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **15.3 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **19.3 liter(s)** of **76C** water or to achieve **29.5 liter(s)** of wort

### Fermentables

| Type  | Name                | Amount        | Yield | EBC |
|-------|---------------------|---------------|-------|-----|
| Grain | Strzegom Pilzneński | 2 kg (39.2%)  | 80 %  | 8   |
| Grain | Strzegom Wiedeński  | 2.5 kg (49%)  | 79 %  | 10  |
| Grain | Bestmalz Red X      | 0.3 kg (5.9%) | 79 %  | 59  |
| Grain | melanoidynowy       | 0.3 kg (5.9%) | 78 %  | 80  |

### Hops

| Use for | Name           | Amount | Time   | Alpha acid |
|---------|----------------|--------|--------|------------|
| Boil    | Bramling cross | 30 g   | 60 min | 6 %        |
| Boil    | Fuggles        | 20 g   | 10 min | 4.5 %      |
| Boil    | Bramling cross | 10 g   | 10 min | 6 %        |

### Yeasts

| Name        | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 10 g   | ---        |

### Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|        |                                  |       |         |          |
|--------|----------------------------------|-------|---------|----------|
| Flavor | skórki pomarańczy<br>kandyzowane | 100 g | Primary | 7 day(s) |
|--------|----------------------------------|-------|---------|----------|