

## #64 Wędzona IPA

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **49**
- SRM **5.9**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.8 liter(s)**
- Total mash volume **25 liter(s)**

### Steps

- Temp **66 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **77 C**, Time **5 min**

### Mash step by step

- Heat up **18.8 liter(s)** of strike water to **73.6C**
- Add grains
- Keep mash **30 min** at **66C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **12.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

| Type  | Name                     | Amount       | Yield  | EBC |
|-------|--------------------------|--------------|--------|-----|
| Grain | Strzegom Pale Ale        | 4 kg (64%)   | 79 %   | 6   |
| Grain | Pszeniczny Wędzony dębem | 1 kg (16%)   | 80 %   | 10  |
| Grain | Wiedeński Wędzony torfem | 1 kg (16%)   | 81 %   | 10  |
| Grain | Acid Malt (zakwaszający) | 0.25 kg (4%) | 58.7 % | 6   |

### Hops

| Use for | Name                  | Amount | Time   | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil    | Marynka               | 35 g   | 60 min | 10 %       |
| Boil    | Saaz (Czech Republic) | 50 g   | 30 min | 3.24 %     |

### Yeasts

| Name         | Type | Form  | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale  | Slant | 200 ml | Fermentis  |

### Extras

| Type   | Name                                | Amount | Use for   | Time     |
|--------|-------------------------------------|--------|-----------|----------|
| Fining | whirlfloc                           | 1 g    | Boil      | 10 min   |
| Flavor | herbata wędzona<br>Lapsang Souchong | 100 g  | Secondary | 2 day(s) |
| Other  | witamina A                          | 4 g    | Bottling  | ---      |