

IPA #1

- Gravity **16.1 BLG**
- ABV ---
- IBU **60**
- SRM **9.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.2 liter(s)**
- Total mash volume **25.6 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **19.2 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **15 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 5 kg (78.1%) | 85 % | 7 |
| Grain | Strzegom pszeniczny | 0.5 kg (7.8%) | 81 % | 6 |
| Grain | Strzegom Monachijski typ I | 0.4 kg (6.3%) | 79 % | 16 |
| Grain | Weyermann - Abbey Malt | 0.5 kg (7.8%) | 50 % | 45 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|--------|------------|
| Boil | lunga | 20 g | 60 min | 11 % |
| Boil | Jarrylo | 15 g | 30 min | 15 % |
| Boil | Jarrylo | 15 g | 20 min | 15 % |
| Boil | Mosaic | 20 g | 15 min | 10 % |
| Boil | Simcoe | 10 g | 0 min | 13 % |
| Aroma (end of boil) | Centennial | 15 g | 0 min | 10.5 % |
| Whirlpool | Mosaic | 15 g | 15 min | 10 % |
| Whirlpool | Centennial | 15 g | 15 min | 10.5 % |

| | | | | |
|-----------|--------|------|----------|------|
| Whirlpool | Simcoe | 15 g | 15 min | 13 % |
| Dry Hop | Mosaic | 25 g | 5 day(s) | 10 % |
| Dry Hop | Simcoe | 25 g | 5 day(s) | 13 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-05 | Ale | Dry | 15 g | Safale |