

Żyto IPA

- Gravity **15.9 BLG**
- ABV ---
- IBU **45**
- SRM **11.3**
- Style **Rye IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.1 liter(s)**
- Total mash volume **22.8 liter(s)**

Steps

- Temp **66 C**, Time **70 min**

Mash step by step

- Heat up **17.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **70 min** at **66C**
- Sparge using **15.7 liter(s)** of **76C** water or to achieve **27.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 3.5 kg (61.4%) | 79 % | 6 |
| Grain | Żytmi | 1.5 kg (26.3%) | 85 % | 8 |
| Grain | Weyermann - Carapils | 0.3 kg (5.3%) | 78 % | 4 |
| Grain | Strzegom Karmel 30 | 0.3 kg (5.3%) | 75 % | 30 |
| Grain | Caraaroma | 0.1 kg (1.8%) | 78 % | 400 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------|--------|----------|------------|
| Boil | Marynka | 25 g | 60 min | 10 % |
| Boil | Equinox | 5 g | 15 min | 13.1 % |
| Boil | Cascade | 25 g | 15 min | 6 % |
| Boil | Equinox | 20 g | 5 min | 13.1 % |
| Boil | Amarillo | 10 g | 5 min | 9.5 % |
| Boil | Rakau (NZ) | 10 g | 5 min | 9.5 % |
| Dry Hop | Amarillo | 20 g | 5 day(s) | 9.5 % |
| Dry Hop | Rakau (NZ) | 20 g | 5 day(s) | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|-------------|-----|-------|--------|-----|
| Safale S-04 | Ale | Slant | 700 ml | --- |
|-------------|-----|-------|--------|-----|

Extras

| Type | Name | Amount | Use for | Time |
|-------------|----------------|--------|---------|--------|
| Water Agent | mech irlandzki | 5 g | Boil | 15 min |