

IIPa

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **86**
- SRM **4**
- Style **White 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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.3 liter(s)**
- Total mash volume **19 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **72 C**, Time **30 min**
- Temp **62 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **14.3 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **40 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **15.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 3 kg (63.2%) | 79 % | 6 |
| Grain | Pszeniczny | 1 kg (21.1%) | 85 % | 4 |
| Grain | Płatki owsiane | 0.25 kg (5.3%) | 85 % | 3 |
| Grain | Płatki pszeniczne | 0.5 kg (10.5%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil | Marynka | 60 g | 60 min | 8.8 % |
| Aroma (end of boil) | Citra | 50 g | 10 min | 13.5 % |
| Dry Hop | Citra | 50 g | 3 day(s) | 13.5 % |
| Dry Hop | Amarillo | 50 g | 3 day(s) | 8.7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |

Extras

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

| Type | Name | Amount | Use for | Time |
|-------|-------------------|--------|-----------|----------|
| Spice | Lipa | 50 g | Secondary | 3 day(s) |
| Spice | skórka pomarańczy | 10 g | Secondary | 3 day(s) |
| Spice | skórka cytryny | 10 g | Secondary | 3 day(s) |