

Session IPA

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **38**
- SRM **4.1**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **15 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **8.8 liter(s)**
- Total mash volume **11.3 liter(s)**

Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **25 min**
- Temp **79 C**, Time **5 min**

Mash step by step

- Heat up **8.8 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **25 min** at **72C**
- Keep mash **5 min** at **79C**
- Sparge using **8.7 liter(s)** of **76C** water or to achieve **15 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|---------------|-------|-----|
| Grain | Strzegom Pilzneński | 1.9 kg (76%) | 80 % | 4 |
| Grain | Płatki owsiane | 0.25 kg (10%) | 85 % | 3 |
| Grain | Płatki pszeniczne | 0.25 kg (10%) | 85 % | 3 |
| Grain | Abbey Castle | 0.1 kg (4%) | 80 % | 45 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|-----------|--------|----------|------------|
| Boil | Chinook | 15 g | 45 min | 12 % |
| Whirlpool | Azacca'19 | 15 g | 1 min | 13 % |
| Whirlpool | Citra'19 | 10 g | 1 min | 13.9 % |
| Whirlpool | Mosaic'18 | 10 g | 1 min | 12.6 % |
| Dry Hop | Citra'19 | 20 g | 4 day(s) | 13.9 % |
| Dry Hop | Mosaic'18 | 20 g | 4 day(s) | 12.6 % |
| Dry Hop | Azacca'19 | 25 g | 4 day(s) | 13 % |

Yeasts

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

| | | | | |
|---------|-----|-------|-------|-----------|
| Verdant | Ale | Slant | 80 ml | Lallemand |
|---------|-----|-------|-------|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|-------------|----------------|---------------|----------------|-------------|
| Water Agent | Chlorek wapnia | 5 g | Mash | 90 min |