

CCC#ipa

- Gravity **13.3 BLG**
- ABV ---
- IBU **74**
- SRM **5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.7 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **27.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.6 liter(s)**
- Total mash volume **23.9 liter(s)**

Steps

- Temp **51 C**, Time **1 min**
- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **18.6 liter(s)** of strike water to **55.4C**
- Add grains
- Keep mash **1 min** at **51C**
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14.4 liter(s)** of **76C** water or to achieve **27.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Strzegom Pilzneński | 3.5 kg (66%) | 80 % | 4 |
| Grain | Weyermann pszeniczny jasny | 1 kg (18.9%) | 80 % | 6 |
| Grain | Carahell | 0.4 kg (7.5%) | 77 % | 26 |
| Grain | Strzegom Wiedeński | 0.4 kg (7.5%) | 79 % | 10 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|------------|------------------------|--------|--------|------------|
| First Wort | Columbus/Tomahawk/Zeus | 13 g | 20 min | 15.5 % |
| Boil | Citra | 25 g | 60 min | 12 % |
| Boil | Cascade | 15 g | 30 min | 6 % |
| Boil | Citra | 15 g | 25 min | 12 % |
| Boil | Citra | 20 g | 5 min | 12 % |
| Boil | Cascade | 20 g | 5 min | 6 % |
| Whirlpool | Cascade | 25 g | 10 min | 6 % |
| Whirlpool | Citra | 25 g | 10 min | 12 % |

| | | | | |
|---------|---------|------|----------|------|
| Dry Hop | Cascade | 35 g | 4 day(s) | 6 % |
| Dry Hop | Citra | 25 g | 4 day(s) | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| us-05 | Ale | Dry | 11.5 g | --- |