

Summer session ipa

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **31**
- SRM **4.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **75 min**
- Evaporation rate **10 %/h**
- Boil size **28.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.2 liter(s)**
- Total mash volume **21.6 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **16.2 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **5 min** at **76C**
- Sparge using **17.7 liter(s)** of **76C** water or to achieve **28.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------|---------------|-------|-----|
| Grain | Pilznieński | 5 kg (92.6%) | 81 % | 4 |
| Grain | Pszeniczny | 0.2 kg (3.7%) | 85 % | 4 |
| Grain | Abbey Castle | 0.2 kg (3.7%) | 80 % | 45 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 20 g | 60 min | 15.5 % |
| Boil | Citra | 15 g | 0 min | 12 % |
| Boil | Mosaic | 15 g | 0 min | 10 % |
| Boil | Simcoe | 15 g | 0 min | 13.2 % |
| Whirlpool | Mosaic | 15 g | 20 min | 10 % |
| Whirlpool | Citra | 15 g | 20 min | 12 % |
| Dry Hop | Mosaic | 20 g | 7 day(s) | 10 % |
| Dry Hop | Citra | 20 g | 7 day(s) | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11 g | Fermentis |