

AIPA CASCADE #3

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **39**
- SRM **8.6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **20.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13 liter(s)**
- Total mash volume **17.4 liter(s)**

Steps

- Temp **65 C**, Time **60 min**
- Temp **70 C**, Time **10 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **13 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **10 min** at **70C**
- Keep mash **5 min** at **76C**
- Sparge using **11.6 liter(s)** of **76C** water or to achieve **20.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|-----------------|-------|-----|
| Grain | Pilzneński | 1.47 kg (33.8%) | 81 % | 4 |
| Grain | Pszeniczny | 0.64 kg (14.7%) | 85 % | 4 |
| Grain | Viking Pale Ale malt | 1.92 kg (44.1%) | 80 % | 5 |
| Grain | Crystal 160 | 0.32 kg (7.4%) | 75 % | 160 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 15 g | 60 min | 15.5 % |
| Boil | Cascade PL | 16 g | 10 min | 5.2 % |
| Boil | Cascade PL | 32 g | 5 min | 5.2 % |
| Aroma (end of boil) | Cascade PL | 16 g | 0 min | 5.2 % |
| Dry Hop | Cascade PL | 48 g | 6 day(s) | 5.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|-------|--------|------------|
| us 05 | Ale | Slant | 128 ml | --- |