

pte

- Gravity **17.7 BLG**
- ABV ---
- IBU **107**
- SRM **7.8**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.5 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **14.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.2 liter(s)**
- Total mash volume **13.6 liter(s)**

Steps

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

Mash step by step

- Heat up **10.2 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Sparge using **7.6 liter(s)** of **76C** water or to achieve **14.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 3.2 kg (94.1%) | 85 % | 7 |
| Grain | Carahell | 0.1 kg (2.9%) | 77 % | 26 |
| Grain | Weyermann - Carapils | 0.1 kg (2.9%) | 78 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|-----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 10 g | 45 min | 15.5 % |
| Boil | Columbus/Tomahawk/Zeus | 20 g | 60 min | 14.6 % |
| Boil | Simcoe | 15 g | 30 min | 13 % |
| Boil | Centennial | 14 g | 0 min | 10.5 % |
| Boil | Simcoe | 35 g | 0 min | 13 % |
| Dry Hop | Columbus/Tomahawk/Zeus | 15 g | 12 day(s) | 15.5 % |
| Dry Hop | Centennial | 15 g | 12 day(s) | 10.5 % |
| Dry Hop | Simcoe | 15 g | 12 day(s) | 13 % |
| Dry Hop | Columbus/Tomahawk/Zeus | 5 g | 5 day(s) | 15.5 % |
| Dry Hop | Centennial | 5 g | 5 day(s) | 10.5 % |
| Dry Hop | Simcoe | 5 g | 5 day(s) | 13 % |

Yeasts

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

| Name | Type | Form | Amount | Laboratory |
|-------------------------------|-------------|-------------|---------------|-------------------|
| WLP001 - California Ale Yeast | Ale | Liquid | 120 ml | White Labs |