

the Butcher

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **86**
- SRM **13.4**
- Style **Red IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.5 liter(s)**
- Total mash volume **11.3 liter(s)**

Steps

- Temp **65.5 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **8.5 liter(s)** of strike water to **73C**
- Add grains
- Keep mash **60 min** at **65.5C**
- Keep mash **5 min** at **78C**
- Sparge using **7 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|-----------------|-------|------|
| Grain | Viking Pale Ale malt | 2.75 kg (97.3%) | 80 % | 5 |
| Grain | Carafa III | 0.07 kg (2.7%) | 70 % | 1034 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 9 g | 60 min | 15.5 % |
| Boil | Citra | 7.5 g | 30 min | 12 % |
| Boil | Simcoe | 7.5 g | 30 min | 13.2 % |
| Aroma (end of boil) | Amarillo | 7.5 g | 15 min | 9.5 % |
| Aroma (end of boil) | Simcoe | 7.5 g | 15 min | 13.2 % |
| Aroma (end of boil) | Citra | 7.5 g | 15 min | 12 % |
| Dry Hop | Citra | 25 g | 7 day(s) | 12 % |
| Dry Hop | Simcoe | 25 g | 7 day(s) | 13.2 % |
| Dry Hop | Amarillo | 15 g | 7 day(s) | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| US-05 | Ale | Dry | 5.75 g | --- |