

Taiaha 2

- Gravity **17.2 BLG**
- ABV ---
- IBU **43**
- SRM **21.9**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **27.6 liter(s)**

Mash information

- Mash efficiency **88 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **23.2 liter(s)**

Steps

- Temp **58 C**, Time **20 min**
- Temp **62 C**, Time **30 min**
- Temp **67 C**, Time **10 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **17.4 liter(s)** of strike water to **64.3C**
- Add grains
- Keep mash **20 min** at **58C**
- Keep mash **30 min** at **62C**
- Keep mash **10 min** at **67C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **16 liter(s)** of **76C** water or to achieve **27.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Bestmalz - Pale Ale Malt | 3.6 kg (62.1%) | 79 % | 7 |
| Grain | Bestmalz - Munich I | 1.2 kg (20.7%) | 78 % | 90 |
| Grain | Fewcatt - Pale Crystal | 0.7 kg (12.1%) | 74 % | 90 |
| Grain | Bestmalz - Melanoiden Malt | 0.3 kg (5.2%) | 80 % | 70 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------------|--------|----------|------------|
| Boil | Green Bullet | 15 g | 60 min | 11 % |
| Aroma (end of boil) | WAI-ITI | 30 g | 15 min | 4.1 % |
| Aroma (end of boil) | Rakau (NZ) | 30 g | 10 min | 9.8 % |
| Aroma (end of boil) | Dr Rudi | 30 g | 7 min | 11.8 % |
| Aroma (end of boil) | Rakau (NZ) | 20 g | 2 min | 9.8 % |
| Dry Hop | Waimea | 80 g | 4 day(s) | 15.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------------------------------|------|------|--------|-----------------|
| Mangrove Jack's M07 British Ale | Ale | Dry | 10 g | Mangrove Jack's |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | Mech irlandzki | 5 g | Boil | 10 min |