

Tropical IPA

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **59**
- SRM **7.8**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **13.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.9 liter(s)**
- Total mash volume **13.2 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **9.9 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **7.2 liter(s)** of **76C** water or to achieve **13.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------|---------------|-------|-----|
| Grain | Castle Pale Ale | 3 kg (90.9%) | 80 % | 8 |
| Grain | Weyermann - Caraamber | 0.2 kg (6.1%) | 75 % | 65 |
| Grain | Carahell | 0.1 kg (3%) | 77 % | 26 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-----------|--------|----------|------------|
| Boil | zeus | 10 g | 60 min | 16 % |
| Boil | mosaic | 10 g | 30 min | 12 % |
| Boil | amarillo | 10 g | 10 min | 7.5 % |
| Boil | mosaic | 10 g | 5 min | 12 % |
| Boil | amarillo | 10 g | 5 min | 7.5 % |
| Aroma (end of boil) | el dorado | 10 g | 0 min | 15 % |
| Aroma (end of boil) | enigma | 10 g | 0 min | 16 % |
| Dry Hop | mosaic | 10 g | 3 day(s) | 12 % |
| Dry Hop | amarillo | 10 g | 3 day(s) | 7.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|------|-----|-------|--------|-----|
| S-05 | Ale | Slant | 100 ml | --- |
|------|-----|-------|--------|-----|

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------------|--------|-----------|----------|
| Flavor | liofilizowany ananas | 30 g | Boil | 15 min |
| Flavor | ananas/mango pulpa | 500 g | Secondary | 7 day(s) |