

DDH APA

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **19**
- SRM **13.2**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **61 C**, Time **10 min**
- Temp **69 C**, Time **50 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **17.5 liter(s)** of strike water to **66.9C**
- Add grains
- Keep mash **10 min** at **61C**
- Keep mash **50 min** at **69C**
- Keep mash **15 min** at **78C**
- Sparge using **12.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|------------|-------|-----|
| Grain | Viking Pale Ale malt | 4 kg (80%) | 80 % | 5 |
| Grain | pszeniczny | 1 kg (20%) | 75 % | 150 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 5 g | 60 min | 15.5 % |
| Boil | callista | 50 g | 15 min | 3.9 % |
| Dry Hop | Lemon drop | 100 g | 4 day(s) | 4.6 % |
| Dry Hop | Columbus/Tomahawk/Zeus | 20 g | 4 day(s) | 15.5 % |
| Dry Hop | Lemon drop | 50 g | 7 day(s) | 4.6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------------------|-------|------|--------|-----------------|
| Mangrove Jack's m12 | Wheat | Dry | 11 g | Mangrove Jack's |

Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

| | | | | |
|-------|-----------------|------|-----------|----------|
| Spice | trawa cytrynowa | 20 g | Boil | 15 min |
| Spice | trawa cytrynowa | 20 g | Secondary | 5 day(s) |

Notes

- Lemon drop 50g na fermentacje burzliwą na 7 dni, reszta na zimno na 4 dni na cichą.
Dec 14, 2020, 2:22 PM