

V.I.P. 2

- Gravity **15.9 BLG**
- ABV ---
- IBU **79**
- SRM **5.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **7 %**
- Size with trub loss **24.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **22.5 liter(s)**
- Total mash volume **30 liter(s)**

Steps

- Temp **64 C**, Time **50 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **22.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **50 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14.6 liter(s)** of **76C** water or to achieve **29.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 6.7 kg (89.3%) | 80 % | 5 |
| Grain | Pszeniczny | 0.5 kg (6.7%) | 85 % | 4 |
| Grain | Strzegom Karmel 30 | 0.3 kg (4%) | 75 % | 30 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|----------|--------|----------|------------|
| Boil | Amarillo | 50 g | 60 min | 8.9 % |
| Boil | Mosaic | 30 g | 20 min | 12 % |
| Boil | Cascade | 30 g | 20 min | 7.7 % |
| Boil | Mosaic | 30 g | 7 min | 12 % |
| Boil | Cascade | 30 g | 7 min | 7.7 % |
| Dry Hop | Mosaic | 40 g | 7 day(s) | 12 % |
| Dry Hop | Cascade | 40 g | 7 day(s) | 7.7 % |
| Dry Hop | Citra | 50 g | 7 day(s) | 12 % |
| Dry Hop | Amarillo | 50 g | 7 day(s) | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------------------------|-------------|-------------|---------------|-------------------|
| Mangrove Jack's M44 US West Coast | Ale | Dry | 11 g | Mangrove Jack's |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------|---------------|----------------|-------------|
| Water Agent | gips | 5 g | Mash | 60 min |
| Fining | mech | 5 g | Boil | 15 min |