

+100 IBU IPA

- Gravity **21.1 BLG**
- ABV **9.4 %**
- IBU **148**
- SRM **7.7**
- Style **Imperial 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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **26.1 liter(s)**
- Total mash volume **34.8 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **26.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **7.9 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 | 6 kg (69%) | 80 % | 5 |
| Grain | Strzegom Monachijski typ I | 1.7 kg (19.5%) | 79 % | 16 |
| Grain | Strzegom Pszeniczny | 0.8 kg (9.2%) | 81 % | 6 |
| Grain | Karmelowy Jasny 30EBC | 0.2 kg (2.3%) | 75 % | 30 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------|--------|----------|------------|
| Boil | Warrior | 40 g | 60 min | 15.5 % |
| Boil | Cascade | 40 g | 20 min | 6 % |
| Boil | Eureka! | 30 g | 10 min | 18 % |
| Boil | Sorachi Ace | 40 g | 10 min | 10 % |
| Aroma (end of boil) | Amarillo | 35 g | 20 min | 9.5 % |
| Aroma (end of boil) | Centennial | 40 g | 20 min | 10.5 % |
| Aroma (end of boil) | Eureka! | 30 g | 20 min | 18 % |
| Dry Hop | Equinox | 70 g | 4 day(s) | 13.1 % |
| Dry Hop | Centennial | 40 g | 4 day(s) | 10.5 % |

Yeasts

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

| Name | Type | Form | Amount | Laboratory |
|--------------------------------------|-------------|-------------|---------------|-------------------|
| Mangrove Jack's M44 US West Coast | Ale | Slant | 300 ml | Mangrove Jack's |