

# AIPA z HB (własna wersja)

- Gravity **16.6 BLG**
- ABV **7 %**
- IBU **48**
- SRM **6.9**
- 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 **10 %/h**
- Boil size **26.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **15 min**

## Mash step by step

- Heat up **21 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **15 min** at **76C**
- Sparge using **12.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount       | Yield | EBC |
|-------|----------------------|--------------|-------|-----|
| Grain | Viking Pale Ale malt | 5 kg (71.4%) | 80 %  | 5   |
| Grain | Viking Munich Malt   | 2 kg (28.6%) | 78 %  | 18  |

## Hops

| Use for             | Name                   | Amount | Time     | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil                | Columbus/Tomahawk/Zeus | 30 g   | 50 min   | 15.5 %     |
| Boil                | Mosaic                 | 10 g   | 50 min   | 10 %       |
| Aroma (end of boil) | Mosaic                 | 10 g   | 0 min    | 10 %       |
| Aroma (end of boil) | Willamette             | 100 g  | 0 min    | 5 %        |
| Dry Hop             | Citra                  | 100 g  | 5 day(s) | 12 %       |
| Dry Hop             | Simcoe                 | 20 g   | 5 day(s) | 13.2 %     |

## Yeasts

| Name                              | Type | Form | Amount | Laboratory      |
|-----------------------------------|------|------|--------|-----------------|
| Mangrove Jack's M44 US West Coast | Ale  | Dry  | 20 g   | Mangrove Jack's |

## Notes

- Start wody: 75 stopni  
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