

# IPA NA MANGO I EARL GREY

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **24**
- SRM **4.1**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **35 liter(s)**
- Trub loss **5 %**
- Size with trub loss **38.5 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **48.9 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **30.9 liter(s)**
- Total mash volume **41.2 liter(s)**

## Steps

- Temp **52 C**, Time **20 min**
- Temp **65 C**, Time **75 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **15 min**

## Mash step by step

- Heat up **30.9 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **20 min** at **52C**
- Keep mash **75 min** at **65C**
- Keep mash **20 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **28.3 liter(s)** of **76C** water or to achieve **48.9 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pilsner malt  | 2.2 kg (21.4%) | 82 %  | 4   |
| Grain | Viking Pale Ale malt | 4.1 kg (39.8%) | 80 %  | 5   |
| Grain | Płatki pszeniczne    | 1.5 kg (14.6%) | 85 %  | 3   |
| Grain | Płatki owsiane       | 1.5 kg (14.6%) | 85 %  | 3   |
| Grain | Żytni                | 1 kg (9.7%)    | 85 %  | 8   |

## Hops

| Use for             | Name       | Amount | Time   | Alpha acid |
|---------------------|------------|--------|--------|------------|
| Boil                | Chinook    | 50 g   | 70 min | 8.5 %      |
| Aroma (end of boil) | Cascade PL | 50 g   | 0 min  | 4 %        |

## Yeasts

| Name         | Type | Form  | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale  | Slant | 150 ml | Fermentis  |

## Extras

| Type   | Name                  | Amount | Use for  | Time     |
|--------|-----------------------|--------|----------|----------|
| Flavor | pulpa z mango 1 warka | 1600 g | Primary  | 3 day(s) |
| Flavor | Milk Sugar (Lactose)  | 700 g  | Primary  | 3 day(s) |
| Flavor | earl grey 2 warka     | 50 g   | Bottling | ---      |
| Flavor | KWIAT HIBISKUSA       | 10 g   | Bottling | 0 min    |

## Notes

- Temperatury kleikowania poszczególnych zbóż są następujące:

jęczmień - 60-65°C  
 pszenica - 58-64 °C  
 żyto - 57-70 °C  
 owies - 53-59 °C  
 kukurydza - 62-74 °C  
 ryż - 68-78 °C  
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