

# Mango Milkshake IPA

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **38**
- SRM **3.5**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **27.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **77 C**, Time **10 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **77C**
- Sparge using **17.3 liter(s)** of **76C** water or to achieve **27.3 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield  | EBC |
|-------|----------------------|----------------|--------|-----|
| Grain | Viking Pilsner malt  | 4 kg (71.4%)   | 82 %   | 4   |
| Grain | Pszeniczny           | 1 kg (17.9%)   | 85 %   | 4   |
| Sugar | Milk Sugar (Lactose) | 0.6 kg (10.7%) | 76.1 % | 0   |

## Hops

| Use for             | Name   | Amount | Time     | Alpha acid |
|---------------------|--------|--------|----------|------------|
| Aroma (end of boil) | Mosaic | 30 g   | 15 min   | 12 %       |
| Aroma (end of boil) | Citra  | 30 g   | 15 min   | 13.9 %     |
| Dry Hop             | Citra  | 30 g   | 4 day(s) | 13.9 %     |
| Dry Hop             | Mosaic | 30 g   | 4 day(s) | 12 %       |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11 g   | ---        |

## Extras

| Type   | Name        | Amount | Use for   | Time      |
|--------|-------------|--------|-----------|-----------|
| Other  | laktoza     | 600 g  | Boil      | 50 min    |
| Flavor | pulpa mango | 1600 g | Secondary | 10 day(s) |

## Notes

- Wg. Doroty - zmodyfikowane.  
*May 25, 2020, 2:13 PM*