

Mango Milkshake IPA

- Gravity **12.9 BLG**
- ABV ---
- IBU **35**
- SRM **3.8**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **4 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **75 min**
- Evaporation rate **10 %/h**
- Boil size **32.6 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **22.8 liter(s)**
- Total mash volume **29.3 liter(s)**

Steps

- Temp **62 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **22.8 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **60 min** at **62C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **16.3 liter(s)** of **76C** water or to achieve **32.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Pilzneński | 5 kg (76.9%) | 81 % | 4 |
| Grain | Weyermann pszeniczny jasny | 1 kg (15.4%) | 80 % | 6 |
| Grain | płatki ryżowe | 0.5 kg (7.7%) | 1 % | 2 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|--------|--------|----------|------------|
| Boil | Citra | 30 g | 60 min | 13.5 % |
| Whirlpool | Citra | 30 g | 30 min | 13.5 % |
| Whirlpool | Mosaic | 30 g | 30 min | 11.8 % |
| Dry Hop | Mosaic | 20 g | 5 day(s) | 10 % |
| Dry Hop | Citra | 40 g | 2 day(s) | 13.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|---------------|--------|-----------|-----------|
| Flavor | zest z cytryn | 100 g | Secondary | 15 day(s) |
| Flavor | pulpa mango | 1500 g | Secondary | 4 day(s) |
| Flavor | laktoza | 500 g | Boil | 15 min |