

# Milkshake Mango NZ GMO IPA

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **17**
- SRM **4**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **29.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **35.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **24 liter(s)**
- Total mash volume **32 liter(s)**

## Steps

- Temp **66 C**, Time **45 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **24 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **45 min** at **66C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **19.8 liter(s)** of **76C** water or to achieve **35.8 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount        | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Pilzneński           | 5 kg (62.5%)  | 81 %  | 4   |
| Grain | Płatki owsiane       | 0.5 kg (6.3%) | 85 %  | 3   |
| Grain | Płatki pszeniczne    | 0.5 kg (6.3%) | 85 %  | 3   |
| Grain | Pszeniczny           | 1 kg (12.5%)  | 85 %  | 4   |
| Grain | Weyermann - Carapils | 1 kg (12.5%)  | 78 %  | 4   |

## Hops

| Use for             | Name          | Amount | Time     | Alpha acid |
|---------------------|---------------|--------|----------|------------|
| Boil                | Magnum        | 20 g   | 30 min   | 13.5 %     |
| Aroma (end of boil) | Nelson Sauvín | 50 g   | 1 min    | 11 %       |
| Dry Hop             | Nelson Sauvín | 100 g  | 7 day(s) | 11 %       |

## Yeasts

| Name    | Type | Form  | Amount | Laboratory        |
|---------|------|-------|--------|-------------------|
| OYL-405 | Ale  | Slant | 50 ml  | Helio Gazer OMEGA |

## Extras

| Type   | Name    | Amount | Use for | Time     |
|--------|---------|--------|---------|----------|
| Flavor | Laktoza | 500 g  | Boil    | 4 min    |
| Flavor | Mango   | 1500 g | Primary | 2 day(s) |