

Wilkshake IPA z mango

- Gravity **17.5 BLG**
- ABV **7.5 %**
- IBU **3**
- SRM **4.1**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **30.4 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **2.85 liter(s) / kg**
- Mash size **18.8 liter(s)**
- Total mash volume **25.4 liter(s)**

Steps

- Temp **67 C**, Time **40 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **18.8 liter(s)** of strike water to **75.3C**
- Add grains
- Keep mash **40 min** at **67C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **18.2 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|--------|-----|
| Grain | Strzegom Pilzneński | 5 kg (70.4%) | 80 % | 4 |
| Grain | Płatki owsiane | 0.8 kg (11.3%) | 85 % | 3 |
| Grain | Płatki pszeniczne | 0 kg | 85 % | 3 |
| Grain | Płatki orkiszowe | 0.4 kg (5.6%) | 80 % | 4 |
| Grain | Rye, Flaked | 0.4 kg (5.6%) | 78.3 % | 4 |
| Sugar | Milk Sugar (Lactose) | 0.5 kg (7%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|----------|------------|
| Boil | Mosaic | 10 g | 10 min | 10 % |
| Aroma (end of boil) | Equinox | 50 g | 0 min | 13.1 % |
| Dry Hop | Mosaic | 50 g | 4 day(s) | 10 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|-------|--------|-------------------|
| Kveik | Ale | Slant | 700 ml | Własną propagacją |

Extras

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

| Type | Name | Amount | Use for | Time |
|--------|---------------|--------|---------|-----------|
| Flavor | Laktoza | 500 g | Boil | 10 min |
| Flavor | Puree z mango | 1000 g | Primary | 10 day(s) |