

Vanilla Strawberry Milkshake IPA

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **35**
- SRM **5.1**
- Style **Fruit Beer**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.5 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **27 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **1 min** at **78C**
- Sparge using **12.5 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|--------|-----|
| Grain | Weyermann - Pale Ale Malt | 4.8 kg (73.8%) | 85 % | 7 |
| Grain | Weyermann pszeniczny jasny | 0.7 kg (10.8%) | 80 % | 6 |
| Grain | Płatki owsiane | 0.5 kg (7.7%) | 85 % | 3 |
| Sugar | Milk Sugar (Lactose) | 0.5 kg (7.7%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------|--------|----------|------------|
| Boil | Columbus | 15 g | 60 min | 15.5 % |
| Whirlpool | Citra | 15 g | 20 min | 12.9 % |
| Whirlpool | Azacca | 15 g | 20 min | 13 % |
| Whirlpool | Centennial | 15 g | 20 min | 8.3 % |
| Dry Hop | Citra | 50 g | 2 day(s) | 12.9 % |
| Dry Hop | Azacca | 50 g | 2 day(s) | 13 % |
| Dry Hop | Centennial | 50 g | 2 day(s) | 8.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------------------------------|-----|-----|------|-----------------|
| Mangrove Jack's M44 US West Coast | Ale | Dry | 10 g | Mangrove Jack's |
|--------------------------------------|-----|-----|------|-----------------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------------|--------|-----------|----------|
| Other | Laktoza | 500 g | Boil | 5 min |
| Flavor | Truskawkowe puree | 2000 g | Secondary | 5 day(s) |