

Milkshake IPA

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **208**
- SRM **5.4**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

Steps

- Temp **65 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **75 C**, Time **15 min**

Mash step by step

- Heat up **16.5 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **10 min** at **72C**
- Keep mash **15 min** at **75C**
- Sparge using **14.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|---------------|--------|-----|
| Grain | Viking Pale Ale malt | 4 kg (64%) | 80 % | 5 |
| Grain | Oats, Flaked | 1 kg (16%) | 80 % | 2 |
| Grain | Biscuit Malt | 0.25 kg (4%) | 79 % | 45 |
| Grain | Carahell | 0.25 kg (4%) | 77 % | 26 |
| Sugar | Milk Sugar (Lactose) | 0.75 kg (12%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------|--------|----------|------------|
| Boil | Galaxy | 30 g | 60 min | 15 % |
| Boil | Galaxy | 30 g | 50 min | 15 % |
| Boil | Galaxy | 30 g | 40 min | 15 % |
| Boil | Enigma (AUS) | 30 g | 30 min | 17.2 % |
| Boil | Enigma (AUS) | 30 g | 20 min | 17.2 % |
| Boil | Enigma (AUS) | 30 g | 10 min | 17.2 % |
| Dry Hop | Enigma (AUS) | 90 g | 9 day(s) | 17.2 % |

Yeasts

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

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------------|---------------|----------------|-------------|
| Other | kompot z czereśni | 3000 g | Boil | 10 min |
| Other | kompot z czereśni | 1000 g | Secondary | 9 day(s) |