

Milk shake IPA (Vermont) low %

- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **51**
- SRM **2.9**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **21.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.4 liter(s)**
- Total mash volume **11.2 liter(s)**

Steps

- Temp **68 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **8.4 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **50 min** at **68C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **21.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|--------|-----|
| Grain | Viking Pale Ale malt | 1.5 kg (45.5%) | 80 % | 5 |
| Grain | Viking Wheat Malt | 0.6 kg (18.2%) | 83 % | 5 |
| Grain | Wheat, Flaked | 0.3 kg (9.1%) | 77 % | 4 |
| Grain | Oats, Flaked | 0.4 kg (12.1%) | 80 % | 2 |
| Sugar | Milk Sugar (Lactose) | 0.5 kg (15.2%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|--------|------------|
| First Wort | Citra | 5 g | 60 min | 17 % |
| Aroma (end of boil) | Summit | 10 g | 10 min | 17 % |
| Aroma (end of boil) | Chinook | 10 g | 10 min | 13 % |
| Aroma (end of boil) | Cascade | 15 g | 10 min | 6 % |
| Aroma (end of boil) | Citra | 10 g | 10 min | 12 % |
| Aroma (end of boil) | Citra | 5 g | 10 min | 12 % |
| Aroma (end of boil) | Chinook | 5 g | 10 min | 13 % |
| Aroma (end of boil) | Summit | 5 g | 10 min | 17 % |
| Aroma (end of boil) | Cascade | 5 g | 10 min | 6 % |

Yeasts

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

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------|--------|-----------|----------|
| Flavor | truskawki | 1000 g | Secondary | 7 day(s) |

Notes

- summit-cytrusy, mandarynka, grejpfrut.
chinook-cytrusowy (grejpfrut), korzenny, sosnowy.
citra-cytrusy (grejpfrut, limonka), owoce tropikalne (marakuja, liczi, melon, agrest, brzoskwinia).
cascade-owoce cytrusowe, truskawki, czarne jagody, liczi, kwiatowy, grejpfrut, korzenny.
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