

Raspberry Milkshake IPA

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **55**
- SRM **4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.9 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **26.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **5 liter(s) / kg**
- Mash size **29 liter(s)**
- Total mash volume **34.8 liter(s)**

Steps

- Temp **67 C**, Time **90 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **29 liter(s)** of strike water to **71.7C**
- Add grains
- Keep mash **90 min** at **67C**
- Keep mash **15 min** at **78C**
- Sparge using **3.1 liter(s)** of **76C** water or to achieve **26.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|---------------|--------|-----|
| Grain | Pilzneński | 4 kg (63.5%) | 81 % | 4 |
| Grain | Pszeniczny | 1 kg (15.9%) | 85 % | 4 |
| Grain | Oats, Flaked | 0.5 kg (7.9%) | 80 % | 2 |
| Grain | Weyermann - Carapils | 0.3 kg (4.8%) | 78 % | 4 |
| Sugar | Milk Sugar (Lactose) | 0.5 kg (7.9%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|--------|----------|------------|
| Aroma (end of boil) | Amarillo | 30 g | 5 min | 9.5 % |
| Aroma (end of boil) | Vic Secret | 30 g | 5 min | 18 % |
| Aroma (end of boil) | Citra | 30 g | 5 min | 12 % |
| Whirlpool | Amarillo | 30 g | 20 min | 8.2 % |
| Whirlpool | Vic Secret | 30 g | 20 min | 18 % |
| Whirlpool | Citra | 30 g | 20 min | 12 % |
| Dry Hop | Amarillo | 40 g | 7 day(s) | 8.2 % |
| Dry Hop | Vic Secret | 40 g | 7 day(s) | 18 % |
| Dry Hop | Citra | 40 g | 7 day(s) | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 150 ml | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------------|--------|-----------|-----------|
| Flavor | Raspberry juice | 1500 g | Secondary | 14 day(s) |
| Spice | Vanilla fruits | 3 g | Secondary | 7 day(s) |