

Liczi milkshake IPA

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **27**
- SRM **3.7**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **14.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.1 liter(s)**
- Total mash volume **11.7 liter(s)**

Steps

- Temp **62 C**, Time **15 min**
- Temp **72 C**, Time **50 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **9.1 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **15 min** at **62C**
- Keep mash **50 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **7.9 liter(s)** of **76C** water or to achieve **14.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 2 kg (65.8%) | 80 % | 5 |
| Grain | Płatki pszeniczne | 0.3 kg (9.9%) | 85 % | 3 |
| Grain | Płatki owsiane | 0.3 kg (9.9%) | 85 % | 3 |
| Sugar | Milk Sugar (Lactose) | 0.25 kg (8.2%) | 100 % | 0 |
| Adjunct | Cukier z pulpy liczi | 0.19 kg (6.3%) | 100 % | --- |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------------------|--------|----------|------------|
| Boil | Summit | 8 g | 60 min | 17 % |
| Boil | Summit | 13 g | 2 min | 17 % |
| Dry Hop | Simcoe | 13 g | 2 day(s) | 13.2 % |
| Dry Hop | Summit | 9 g | 4 day(s) | 17 % |
| Dry Hop | Simcoe | 17 g | 4 day(s) | 13.2 % |
| Dry Hop | Falconer's Flight | 30 g | 4 day(s) | 10 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------|--------|---------|-----------|
| Flavor | Pulpa liczi | 1000 g | Primary | 11 day(s) |

Notes

- Laktoza rozpuszczona w odebranej brzezce ok. 2 l i dodana na ostatnie 5 min
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