

Sztukmistrz z Lublina

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **26**
- SRM **8**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19.8 liter(s)**

Mash information

- Mash efficiency **66 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.2 liter(s)**
- Total mash volume **22.1 liter(s)**

Steps

- Temp **60 C**, Time **50 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **17.2 liter(s)** of strike water to **65.7C**
- Add grains
- Keep mash **50 min** at **60C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **7.5 liter(s)** of **76C** water or to achieve **19.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3.4 kg (69.4%) | 80 % | 5 |
| Grain | Weyermann - Carapils | 0.4 kg (8.2%) | 78 % | 4 |
| Grain | Carared | 0.4 kg (8.2%) | 75 % | 39 |
| Grain | Viking Melanoidynowy | 0.4 kg (8.2%) | 75 % | 60 |
| Grain | Płatki owsiane | 0.3 kg (6.1%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil | Lubelski | 15 g | 50 min | 7.1 % |
| Boil | Sybilla | 20 g | 20 min | 5.7 % |
| Aroma (end of boil) | Oktawia | 20 g | 3 min | 7.1 % |
| Whirlpool | Oktawia | 30 g | 0 min | 7.1 % |
| Whirlpool | Izabella | 20 g | 0 min | 5.1 % |
| Dry Hop | Sybilla | 50 g | 4 day(s) | 5.7 % |
| Dry Hop | Izabella | 50 g | 4 day(s) | 5.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale K-97 | Ale | Dry | 11 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|-------|------------|--------|-----------|----------|
| Other | Witamina C | 1.5 g | Secondary | 5 day(s) |