

Luk - Zielone APA - 12l

- Gravity **16.8 BLG**
- ABV **7.1 %**
- IBU **39**
- SRM **10.3**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **3 %**
- Size with trub loss **12.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **6 %/h**
- Boil size **13.4 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.1 liter(s)**
- Total mash volume **13.4 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **10.1 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **6.7 liter(s)** of **76C** water or to achieve **13.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------|----------------|-------|-----|
| Grain | Viking Wiedeński | 2.6 kg (77.6%) | 79 % | 9 |
| Grain | Viking Monachijski Jasny | 0.25 kg (7.5%) | 78 % | 16 |
| Grain | Viking Karmelowy 150 | 0.2 kg (6%) | 75 % | 150 |
| Grain | Viking Pszeniczny | 0.1 kg (3%) | 82 % | 5 |
| Grain | Viking Żytni | 0.1 kg (3%) | 75 % | 40 |
| Grain | Płatki ryżowe | 0.1 kg (3%) | 70 % | 2 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|----------|--------|----------|------------|
| Boil | Marynka | 19 g | 60 min | 8.5 % |
| Boil | Sybilla | 14 g | 30 min | 4.6 % |
| Boil | Lubelski | 12 g | 10 min | 4.6 % |
| Dry Hop | Cascade | 12 g | 7 day(s) | 6.8 % |
| Dry Hop | Sybilla | 7 g | 7 day(s) | 4.6 % |
| Dry Hop | Lubelski | 12 g | 7 day(s) | 4.6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------------|--------|---------|--------|
| Herb | Trawa cytrynowa | 12 g | Boil | 10 min |
| Fining | Irish Moss | 2 g | Boil | 10 min |