

Ciemne z dodatkami + anatol

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **27**
- SRM **29.6**
- Style **Spice, Herb, or Vegetable Beer**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **13.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.7 liter(s)**
- Total mash volume **13 liter(s)**

Steps

- Temp **62 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **9.7 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **60 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **6.7 liter(s)** of **76C** water or to achieve **13.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------|----------------|--------|-----|
| Grain | Viking Pilsner malt | 1.7 kg (52.5%) | 82 % | 4 |
| Grain | Wędzony bukiem Viking Malt | 0.3 kg (9.3%) | 82 % | 10 |
| Grain | Viking Malt Wędzony Jabłonią | 0.3 kg (9.3%) | 82 % | 10 |
| Grain | Viking - Caramel Rye Malt | 0.3 kg (9.3%) | 74 % | 175 |
| Grain | Viking Karmel 150 | 0.3 kg (9.3%) | 75 % | 150 |
| Grain | Castle Cafe light | 0.3 kg (9.3%) | 75.5 % | 480 |
| Grain | Kawa zbożowa | 0.02 kg (0.6%) | 80 % | 600 |
| Grain | Kawa mielona | 0.02 kg (0.6%) | 80 % | 800 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------|--------|--------|------------|
| Boil | Comet | 10 g | 60 min | 8.3 % |
| Boil | Comet | 5 g | 20 min | 8.3 % |
| Boil | Chmiel fantasia | 8 g | 20 min | 4.2 % |
| Boil | Chmiel fantasia | 8 g | 11 min | 4.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Spice | Cynamon | 20 g | Boil | 20 min |
| Flavor | Śliwka suszona | 20 g | Boil | 20 min |