

Galaxy Citra Black IPA

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **49**
- SRM **27.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **15.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.375 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **15.5 liter(s)**

Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **12 liter(s)** of strike water to **70.5C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **40 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **7.5 liter(s)** of **76C** water or to achieve **15.9 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------------|----------------|-------|------|
| Grain | Pilzneński | 2.5 kg (70.4%) | 81 % | 4 |
| Grain | Abbey Malt Weyermann | 0.35 kg (9.9%) | 75 % | 45 |
| Grain | Płatki owsiane | 0.4 kg (11.3%) | 65 % | 3 |
| Grain | Strzegom Karmel 150 | 0.1 kg (2.8%) | 75 % | 150 |
| Grain | Weyermann - Carafa III Special | 0.2 kg (5.6%) | 35 % | 1300 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|----------|------------|
| Boil | Sybilla | 20 g | 60 min | 6.7 % |
| Boil | Mosaic | 10 g | 5 min | 10 % |
| Boil | Citra | 25 g | 5 min | 12.8 % |
| Boil | Simcoe | 25 g | 5 min | 13.2 % |
| Dry Hop | Galaxy | 50 g | 3 day(s) | 15.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------------|------|--------|--------|------------------|
| FM10 O czym szumią wierzby | Ale | Liquid | 100 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|-------|------------------------------|--------|---------|-------|
| Spice | Kaffir | 2 g | Boil | 7 min |
| Spice | Skórka z pomarańczy (świeża) | 40 g | Boil | 7 min |