

CERVUS IPPA lunga single hop Pale Ale

- Gravity **11.7 BLG**
- ABV ---
- IBU **19**
- SRM **9.4**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **32.2 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **55 C**, Time **10 min**
- Temp **64 C**, Time **20 min**
- Temp **68 C**, Time **40 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **10 min** at **55C**
- Keep mash **20 min** at **64C**
- Keep mash **40 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **22.2 liter(s)** of **76C** water or to achieve **32.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|------------|-------|-----|
| Grain | Strzegom Pilzneński | 3 kg (60%) | 80 % | 4 |
| Grain | Strzegom Monachijski typ I | 1 kg (20%) | 79 % | 14 |
| Grain | Karmelowy Czerwony | 1 kg (20%) | 75 % | 50 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------|--------|--------|------------|
| Boil | lunga | 10 g | 60 min | 11 % |
| Boil | lunga | 10 g | 30 min | 11 % |
| Aroma (end of boil) | lunga | 10 g | 0 min | 11 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| us-05 | Ale | Dry | 11 g | --- |