

## Warka 4 jasny+ciemny

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **33**
- SRM **45.5**
- Style **Vienna Lager**

### Batch size

- Expected quantity of finished beer **20.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **24.8 liter(s)**

### Fermentables

| Type           | Name                            | Amount         | Yield | EBC |
|----------------|---------------------------------|----------------|-------|-----|
| Liquid Extract | Bruntal ekstrakt słodowy jasny  | 1.6 kg (48.5%) | 81 %  | 26  |
| Liquid Extract | Bruntal ekstrakt słodowy ciemny | 1.7 kg (51.5%) | 90 %  | 621 |

### Hops

| Use for | Name       | Amount | Time   | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil    | Cascade PL | 0 g    | 60 min | 7.8 %      |
| Boil    | Citra      | 10 g   | 60 min | 12 %       |
| Boil    | Cascade PL | 25 g   | 10 min | 7.8 %      |
| Boil    | Citra      | 25 g   | 10 min | 12 %       |

### Yeasts

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

### Notes

- Wstawione 17.06.2023r.  
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