

# Kwas delta kopia (lecz bez ekstraktu ciemnego)

- Gravity **11.2 BLG**
- ABV ---
- IBU **18**
- SRM **28**
- Style **Berliner Weisse**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **19.3 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**
- Temp **68 C**, Time **20 min**
- Temp **78 C**, Time **2 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **68C**
- Keep mash **2 min** at **78C**
- Sparge using **14.6 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name            | Amount      | Yield | EBC |
|-------|-----------------|-------------|-------|-----|
| Grain | Pilzneński      | 4 kg (93%)  | 81 %  | 4   |
| Grain | Jęczmień palony | 0.3 kg (7%) | 55 %  | 985 |

## Hops

| Use for | Name   | Amount | Time   | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil    | Galaxy | 10 g   | 60 min | 15 %       |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | Fermentis  |

## Extras

| Type   | Name           | Amount | Use for   | Time     |
|--------|----------------|--------|-----------|----------|
| Fining | Mech irlandzki | 5 g    | Boil      | 15 min   |
| Flavor | Kwas mlekowy   | 90 g   | Secondary | 0 day(s) |

## Notes

- Planowana ilość dodania kwasu mlekowego może ulec zmianie (po próbach)  
*Dec 1, 2015, 10:49 PM*

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

- Jęczmień palony dodany pod sam koniec zacierania  
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