

# Kept You Waiting, Huh? - Lime APA

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **51**
- SRM **4.6**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **9 liter(s)**
- Trub loss **15 %**
- Size with trub loss **10.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **13.5 %/h**
- Boil size **13.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **8.2 liter(s)**
- Total mash volume **10.6 liter(s)**

## Steps

- Temp **67 C**, Time **70 min**
- Temp **77 C**, Time **11 min**

## Mash step by step

- Heat up **8.2 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **11 min** at **77C**
- Sparge using **8 liter(s)** of **76C** water or to achieve **13.8 liter(s)** of wort

## Fermentables

| Type  | Name                     | Amount          | Yield | EBC |
|-------|--------------------------|-----------------|-------|-----|
| Grain | Viking Pale Ale malt     | 1.75 kg (74.5%) | 80 %  | 5   |
| Grain | Strzegom Wiedeński       | 0.5 kg (21.3%)  | 79 %  | 10  |
| Grain | Karmelowy Jasny<br>30EBC | 0.1 kg (4.3%)   | 75 %  | 30  |

## Hops

| Use for             | Name                   | Amount | Time      | Alpha acid |
|---------------------|------------------------|--------|-----------|------------|
| Boil                | Columbus/Tomahawk/Zeus | 12.5 g | 60 min    | 15.5 %     |
| Boil                | Cascade                | 7.5 g  | 18 min    | 6 %        |
| Aroma (end of boil) | Cascade                | 7.5 g  | 10 min    | 6 %        |
| Dry Hop             | Cascade                | 10 g   | 10 day(s) | 6 %        |

## Yeasts

| Name           | Type | Form | Amount | Laboratory |
|----------------|------|------|--------|------------|
| Danstar BRY-97 | Ale  | Dry  | 11 g   | danstar    |

## Extras

| Type   | Name           | Amount | Use for   | Time     |
|--------|----------------|--------|-----------|----------|
| Flavor | Zest z limonki | 12 g   | Secondary | 9 day(s) |

|        |               |       |           |          |
|--------|---------------|-------|-----------|----------|
| Flavor | Sok z limonki | 200 g | Secondary | 9 day(s) |
|--------|---------------|-------|-----------|----------|