

# witek

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **20**
- SRM **3**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **50 C**, Time **15 min**
- Temp **66 C**, Time **70 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **15 min** at **50C**
- Keep mash **70 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **21.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

| Type  | Name              | Amount       | Yield | EBC |
|-------|-------------------|--------------|-------|-----|
| Grain | Pilzneński        | 2.5 kg (50%) | 81 %  | 4   |
| Grain | Płatki pszeniczne | 1.2 kg (24%) | 85 %  | 3   |
| Grain | Płatki owsiane    | 0.6 kg (12%) | 85 %  | 3   |
| Grain | Pszeniczny        | 0.7 kg (14%) | 85 %  | 4   |

## Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Marynka | 10 g   | 60 min | 10 %       |
| Boil    | Perle   | 10 g   | 40 min | 7 %        |
| Boil    | Perle   | 10 g   | 5 min  | 7 %        |
| Boil    | Citra   | 20 g   | 5 min  | 12 %       |

## Yeasts

| Name           | Type  | Form | Amount | Laboratory |
|----------------|-------|------|--------|------------|
| fermentis K-97 | Wheat | Dry  | 11.5 g | ---        |

## Extras

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

| Type  | Name     | Amount | Use for | Time  |
|-------|----------|--------|---------|-------|
| Spice | kolendra | 15 g   | Boil    | 5 min |
| Spice | curacao  | 15 g   | Boil    | 5 min |