

# Witold Kolender

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **16**
- SRM **3.5**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **14.6 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.8 liter(s)**
- Total mash volume **12.6 liter(s)**

## Steps

- Temp **70 C**, Time **30 min**
- Temp **65 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **9.8 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **30 min** at **70C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **7.6 liter(s)** of **76C** water or to achieve **14.6 liter(s)** of wort

## Fermentables

| Type  | Name                | Amount          | Yield | EBC |
|-------|---------------------|-----------------|-------|-----|
| Grain | Strzegom Pilzneński | 1.4 kg (50%)    | 80 %  | 4   |
| Grain | Płatki pszeniczne   | 1.25 kg (44.6%) | 85 %  | 3   |
| Grain | Płatki owsiane      | 0.15 kg (5.4%)  | 85 %  | 3   |

## Hops

| Use for             | Name                  | Amount | Time   | Alpha acid |
|---------------------|-----------------------|--------|--------|------------|
| Boil                | Saaz (Czech Republic) | 20 g   | 60 min | 3.5 %      |
| Aroma (end of boil) | Saaz (Czech Republic) | 10 g   | 10 min | 3.5 %      |

## Yeasts

| Name             | Type  | Form | Amount | Laboratory |
|------------------|-------|------|--------|------------|
| Brewferm Blanche | Wheat | Dry  | 11 g   | Brewferm   |

## Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|       |                   |      |      |       |
|-------|-------------------|------|------|-------|
| Spice | Kolendra          | 10 g | Boil | 0 min |
| Spice | Curacao           | 10 g | Boil | 0 min |
| Spice | Zest z pomarańczy | 30 g | Boil | 0 min |

## Notes

- Łuska ryżowa do filtracji - 200g  
*Mar 31, 2020, 8:51 PM*