

# Bramy karaibów - Witbier

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **15**
- SRM **3.3**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **27.6 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**

## Mash step by step

- Heat up **13.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **27.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg (55.6%)	81 %	4
Grain	Płatki pszeniczne	1 kg (22.2%)	60 %	3
Grain	Pszeniczny	1 kg (22.2%)	85 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	30 g	60 min	2.9 %
Boil	Marynka	5 g	60 min	7.9 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM20 Białe Walonki	Wheat	Liquid	40 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Flavor	Skórki gorzkiej pomarańczy	20 g	Boil	10 min
Flavor	Skórki słodkiej pomarańczy	20 g	Boil	10 min
Spice	Kolendra indyjska	20 g	Boil	10 min
Spice	Trawa cytrynowa	20 g	Boil	10 min