

# WITam Panią

- Gravity **12.4 BLG**
- ABV ---
- IBU **15**
- SRM **3.5**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.4 liter(s)**
- Total mash volume **19.2 liter(s)**

## Steps

- Temp **50 C**, Time **30 min**
- Temp **66 C**, Time **40 min**
- Temp **72 C**, Time **15 min**
- Temp **80 C**, Time **0 min**

## Mash step by step

- Heat up **14.4 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **30 min** at **50C**
- Keep mash **40 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **0 min** at **80C**
- Sparge using **18.2 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg (41.7%)	81 %	4
Grain	Pszeniczny	2 kg (41.7%)	85 %	4
Grain	Płatki pszeniczne	0.5 kg (10.4%)	85 %	3
Grain	Płatki owsiane	0.3 kg (6.3%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	30 g	60 min	4.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew S-33	Ale	Dry	11.5 g	Safbrew

## Extras

Type	Name	Amount	Use for	Time
Spice	Kolendra	10 g	Boil	10 min

Spice	Skórka pomarańczy i cytryny	15 g	Boil	10 min
Spice	Skórka pomarańczy i cytryny	15 g	Boil	5 min
Spice	Kolendra	10 g	Boil	5 min