

# Królowa Citra I

- Gravity **14 BLG**
- ABV ---
- IBU **30**
- SRM **4.5**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **13.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9 liter(s)**
- Total mash volume **12 liter(s)**

## Steps

- Temp **64 C**, Time **45 min**
- Temp **71 C**, Time **15 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **9 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **71C**
- Keep mash **1 min** at **78C**
- Sparge using **7.8 liter(s)** of **76C** water or to achieve **13.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.3 kg (76.7%)	81 %	4
Grain	Pszeniczny	0.4 kg (13.3%)	85 %	4
Grain	Strzegom Monachijski typ I	0.3 kg (10%)	79 %	16

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	10 g	60 min	12 %
Boil	Citra	5 g	15 min	12 %
Aroma (end of boil)	Citra	10 g	1 min	12 %
Dry Hop	Citra	25 g	5 day(s)	12 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	6 g	Fermentis