

# Wiosenne Citra

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- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **35**
- SRM **2.7**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **10 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **20.7 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **10 liter(s)**
- Total mash volume **14 liter(s)**

## Steps

- Temp **67 C**, Time **90 min**

## Mash step by step

- Heat up **10 liter(s)** of strike water to **76.4C**
- Add grains
- Keep mash **90 min** at **67C**
- Sparge using **14.7 liter(s)** of **76C** water or to achieve **20.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	4 kg (100%)	80.5 %	2

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	25 g	15 min	13.7 %
Whirlpool	Citra	30 g	10 min	13.7 %
Dry Hop	Citra	45 g	5 day(s)	13.7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Dry	5 g	SAFALE

## Notes

- plan na 4 singlehop jak tylko pojawia sie amerykance  
Citra  
Amarillo  
Mosaic  
Simcoe  
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