

# American Amber Ale

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- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **27**
- SRM **14.9**
- Style **American Amber Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **75 min**
- Evaporation rate **10 %/h**
- Boil size **25.9 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.1 liter(s)**
- Total mash volume **24.5 liter(s)**

## Steps

- Temp **55 C**, Time **15 min**
- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **19.1 liter(s)** of strike water to **60C**
- Add grains
- Keep mash **15 min** at **55C**
- Keep mash **60 min** at **68C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **25.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Fawcett - Pale Ale MARIS OTTER	3 kg (55%)	83 %	6
Grain	Fawcett - Pale Amber	1 kg (18.3%)	70 %	70
Grain	Strzegom Red Ale	0.5 kg (9.2%)	75 %	70
Grain	Cara-Pils/Dextrine	0.3 kg (5.5%)	72 %	4
Grain	Special B Castle	0.15 kg (2.8%)	70 %	350
Grain	Aromatic Malt	0.5 kg (9.2%)	78 %	51

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	10 g	40 min	9.5 %
Aroma (end of boil)	Centennial	20 g	20 min	10.5 %
Aroma (end of boil)	Centennial	20 g	5 min	10.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
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Safale US-05	Ale	Slant	100 ml	Fermentis
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## Extras

Type	Name	Amount	Use for	Time
Fining	Whirlfloc	1.25 g	Boil	5 min
1.25 To będzie jakieś pół tabletki. Stosować jak pH brzezki wynosi 5-5.5 ułatwia to zbijanie białek				
Fining	Żelatyna	2 g	Secondary	2 day(s)
Water Agent	Gips piwowarski	2 g	Mash	91 min
Dodane od początku zacierania				
Water Agent	Kwas mlekowy	2 g	Boil	60 min
Dodane od początku gotowania				

## Notes

- Parametry wody:

Calcium (ppm)50-150  
Magnesium (ppm)0-30  
Alkalinity as CaCO<sub>3</sub>40-120  
Sulfate (ppm)100-300  
Chloride (ppm)50-100  
Sodium (ppm)<100  
Residual Alkalinity0-60

W moim przypadku 50% kranówka + 50% demineralizowana + gips + kwas

*Jan 5, 2020, 12:35 AM*

- Plan fermentacji:  
1-5 dzień - 18 st. C  
6-7 dzień - 19 st. C  
8 dzień - do końca - 21 st. C  
*Feb 5, 2020, 3:10 PM*