

# Leśna APA 2.0

- Gravity **11.2 BLG**
- ABV ---
- IBU **35**
- SRM **4.1**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **4 %**
- Size with trub loss **24.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **66 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **45 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **19.8 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Wheat Malt	4 kg (80%)	85 %	5
Grain	Strzegom Monachijski typ I	0.5 kg (10%)	79 %	16
Grain	Briess - Wheat Malt, White	0.5 kg (10%)	85 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	12.7 %
Boil	Citra	20 g	10 min	11 %
Boil	Mosaic	20 g	3 min	11 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	12 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
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Fining	Mech Irlandzki	5 g	Boil	15 min
Water Agent	gips	2 g	Mash	100 min
Water Agent	chlorek wapnia	5 g	Mash	100 min