

# Panta Rhei 1.0

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- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **43**
- SRM **10.2**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **9 %**
- Size with trub loss **12 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **17 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.4 liter(s) / kg**
- Mash size **11 liter(s)**
- Total mash volume **14.3 liter(s)**

## Steps

- Temp **65 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **80 C**, Time **1 min**

## Mash step by step

- Heat up **11 liter(s)** of strike water to **71.6C**
- Add grains
- Keep mash **30 min** at **65C**
- Keep mash **30 min** at **72C**
- Keep mash **1 min** at **80C**
- Sparge using **9.3 liter(s)** of **76C** water or to achieve **17 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Wiedeński	2.5 kg (76.9%)	80 %	8
Grain	Weyermann - Monachijski II	0.5 kg (15.4%)	80 %	23
Grain	Weyermann - Zakwaszający	0.125 kg (3.8%)	80 %	5
Grain	Weyermann - Special W	0.125 kg (3.8%)	68 %	300

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus -Zeus (2018 - USA)	10 g	60 min	15.1 %
Boil	Cascade (2019 - USA)	25 g	15 min	8.3 %
Whirlpool	Cascade (2019 - USA) - Hopstand 80-70°C (20 min)	50 g	0 min	8.3 %
Dry Hop	Cascade (2019 - USA) - 2 ostatnie dni fermentacji	25 g	2 day(s)	8.3 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Other	Woda zacieranie (olsztńska Nagórki - 7,50pH)	11000 g	Mash	71 min
Other	Woda wysładzanie (olsztńska Nagórki - 7,50pH)	10000 g	Mash	71 min
Water Agent	Kwas fosforowy (woda do wysładzania - 5,4pH)	4 g	Mash	71 min
Fining	Whirlfloc T	1 g	Boil	5 min

## Notes

- panta rhei [wym. panta rei] «wszystko płynie - wszystko jest płynne, nietrwale, zmienne»  
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