

# Raniuszek (Niskoalkoholowa Tea APA)

- Gravity **6.6 BLG**
- ABV **2.5 %**
- IBU **28**
- SRM **4.2**
- Style **Specialty Beer**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

## Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **6.9 liter(s)**
- Total mash volume **9.2 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **6.9 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14.4 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	2 kg (87%)	85 %	7
Grain	Carahell	0.3 kg (13%)	77 %	26

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Equinox	5 g	60 min	13.1 %
Boil	Equinox	5 g	10 min	13.1 %
Aroma (end of boil)	Equinox	5 g	5 min	13.1 %
Whirlpool	Equinox	15 g	15 min	13.1 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale

## Extras

Type	Name	Amount	Use for	Time
Spice	Zielona herbata	100 g	Secondary	2 day(s)

## Notes

- Bardzo dobre.  
*Apr 24, 2019, 12:04 PM*