

# PIPA

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- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **53**
- SRM **3.6**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **14 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **17.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **17.5 liter(s)**

## Steps

- Temp **62 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **14 liter(s)** of strike water to **67.3C**
- Add grains
- Keep mash **60 min** at **62C**
- Keep mash **5 min** at **78C**
- Sparge using **7.2 liter(s)** of **76C** water or to achieve **17.7 liter(s)** of wort

## Fermentables

| Type  | Name         | Amount         | Yield | EBC |
|-------|--------------|----------------|-------|-----|
| Grain | Pilzniejszy  | 3 kg (85.7%)   | 81 %  | 4   |
| Grain | Rice, Flaked | 0.5 kg (14.3%) | 70 %  | 2   |

## Hops

| Use for | Name          | Amount | Time     | Alpha acid |
|---------|---------------|--------|----------|------------|
| Boil    | Puławski 2019 | 25 g   | 60 min   | 7.6 %      |
| Boil    | Puławski 2019 | 25 g   | 30 min   | 7.6 %      |
| Dry Hop | Puławski 2019 | 150 g  | 2 day(s) | 7.6 %      |

## Yeasts

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