

# IPkA

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **70**
- SRM **3.4**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **30 liter(s)**
- Trub loss **5 %**
- Size with trub loss **31.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **38.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.7 liter(s)**
- Total mash volume **27.6 liter(s)**

## Steps

- Temp **62 C**, Time **15 min**
- Temp **67 C**, Time **15 min**
- Temp **72 C**, Time **30 min**

## Mash step by step

- Heat up **20.7 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **15 min** at **62C**
- Keep mash **15 min** at **67C**
- Keep mash **30 min** at **72C**
- Sparge using **24.5 liter(s)** of **76C** water or to achieve **38.3 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount        | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Mep©Lager            | 2 kg (29%)    | 81 %  | 3   |
| Grain | Viking Pale Ale malt | 2 kg (29%)    | 80 %  | 5   |
| Grain | Viking Pilsner malt  | 2 kg (29%)    | 82 %  | 4   |
| Grain | Płatki owsiane       | 0.4 kg (5.8%) | 85 %  | 3   |
| Grain | 3 Płatki pszeniczne  | 0.5 kg (7.2%) | 85 %  | 4   |

## Hops

| Use for | Name            | Amount | Time   | Alpha acid |
|---------|-----------------|--------|--------|------------|
| Boil    | halertau ariana | 30 g   | 60 min | 11.7 %     |
| Boil    | epic            | 30 g   | 60 min | 3.7 %      |
| Boil    | Simcoe          | 30 g   | 30 min | 12.9 %     |
| Boil    | Citra           | 30 g   | 5 min  | 12.3 %     |
| Boil    | Cascade         | 30 g   | 15 min | 6.5 %      |

## Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
| US05 | Ale  | Dry  | 11.5 g | ---        |

## Extras

| Type   | Name            | Amount | Use for | Time   |
|--------|-----------------|--------|---------|--------|
| Flavor | trawa cytrynowa | 50 g   | Boil    | 55 min |