

aipa

- Gravity **15.9 BLG**
- ABV ---
- IBU **52**
- SRM **8.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.7 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **22.4 liter(s)**

Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **16.8 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **16.5 liter(s)** of **76C** water or to achieve **27.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Weyermann - Pilsner Malt | 4.5 kg (80.4%) | 81 % | 5 |
| Grain | Weyermann pszeniczny jasny | 0.4 kg (7.1%) | 80 % | 6 |
| Grain | Cara Gold Castlemalting | 0.2 kg (3.6%) | 78 % | 120 |
| Grain | Strzegom Monachijski typ I | 0.5 kg (8.9%) | 79 % | 16 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Mosaic | 15 g | 60 min | 10 % |
| Boil | Simcoe | 20 g | 20 min | 13.2 % |
| Boil | Citra | 20 g | 20 min | 12 % |
| Boil | Simcoe | 10 g | 5 min | 13.2 % |
| Boil | Citra | 10 g | 5 min | 12 % |
| Boil | Mosaic | 15 g | 5 min | 10 % |
| Boil | Mosaic | 20 g | 0 min | 10 % |
| Boil | Citra | 10 g | 0 min | 12 % |

| | | | | |
|------|--------|------|-------|--------|
| Boil | Simcoe | 20 g | 0 min | 13.2 % |
|------|--------|------|-------|--------|

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|-------|--------|------------------|
| FM52 Amerykański Sen | Ale | Slant | 150 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|------------------|--------|---------|--------|
| Water Agent | Calcium Chloride | 5 g | Boil | 60 min |
| Water Agent | gips | 2 g | Mash | 60 min |