

aipa

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **91**
- SRM **7.1**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **19.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.4 liter(s)**
- Boil time **120 min**
- Evaporation rate **5 %/h**
- Boil size **26.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.3 liter(s)**
- Total mash volume **24.4 liter(s)**

Steps

- Temp **55 C**, Time **15 min**
- Temp **65 C**, Time **75 min**
- Temp **75 C**, Time **15 min**

Mash step by step

- Heat up **18.3 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **15 min** at **55C**
- Keep mash **75 min** at **65C**
- Keep mash **15 min** at **75C**
- Sparge using **14.6 liter(s)** of **76C** water or to achieve **26.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|-----------------|-------|-----|
| Grain | Pilzneński soufflet | 4.39 kg (71.9%) | 81 % | 4.2 |
| Grain | Wiedeński steinbach | 0.86 kg (14%) | 79 % | 10 |
| Grain | Strzegom Monachijski typ II | 0.64 kg (10.5%) | 79 % | 22 |
| Grain | Słód Caramunich Typ II Weyermann | 0.21 kg (3.5%) | 73 % | 120 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|---------|--------|------------|
| Boil | Centennial | 32.09 g | 60 min | 10.5 % |
| Boil | Columbus/Tomahawk/Zeus | 21.4 g | 45 min | 15.5 % |
| Boil | Green Bullet | 26.74 g | 30 min | 11 % |
| Aroma (end of boil) | Green Bullet | 26.74 g | 10 min | 11 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 10.7 g | Fermentis |

Extras

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Type | Name | Amount | Use for | Time |
|--------|------------|--------|---------|--------|
| Fining | Irish Moss | 5.35 g | Boil | 15 min |