

## Hbc472 apa

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **67**
- SRM **3.7**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19.8 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

### Steps

- Temp **63 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **3 min**

### Mash step by step

- Heat up **14 liter(s)** of strike water to **69.1C**
- Add grains
- Keep mash **30 min** at **63C**
- Keep mash **30 min** at **72C**
- Keep mash **3 min** at **76C**
- Sparge using **9.8 liter(s)** of **76C** water or to achieve **19.8 liter(s)** of wort

### Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Pilzneński           | 3.7 kg (92.5%) | 81 %  | 4   |
| Grain | Weyermann - Carapils | 0.3 kg (7.5%)  | 78 %  | 4   |

### Hops

| Use for             | Name                 | Amount | Time     | Alpha acid |
|---------------------|----------------------|--------|----------|------------|
| Boil                | Iunga                | 40 g   | 60 min   | 9.8 %      |
| Aroma (end of boil) | HBC 472 Experimental | 50 g   | 5 min    | 9.3 %      |
| Dry Hop             | HBC 472 Experimental | 50 g   | 3 day(s) | 9.3 %      |

### Yeasts

| Name                  | Type | Form   | Amount  | Laboratory |
|-----------------------|------|--------|---------|------------|
| Wyeast - American Ale | Ale  | Liquid | 1000 ml | ---        |