

WIPA! WIPA!

- Gravity **14.3 BLG**
- ABV ---
- IBU **77**
- SRM **4.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **2 %**
- Size with trub loss **23.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **28.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **23.2 liter(s)**

Steps

- Temp **50 C**, Time **10 min**
- Temp **62 C**, Time **60 min**
- Temp **75 C**, Time **10 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **17.4 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **60 min** at **62C**
- Keep mash **10 min** at **75C**
- Keep mash **1 min** at **78C**
- Sparge using **17.2 liter(s)** of **76C** water or to achieve **28.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Pilzneński | 4.3 kg (74.1%) | 81 % | 4 |
| Grain | Pszeniczny | 1.2 kg (20.7%) | 85 % | 4 |
| Grain | Weyermann - Carapils | 0.3 kg (5.2%) | 78 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|----------|--------|--------|------------|
| Boil | Mosaic | 25 g | 60 min | 11.7 % |
| Boil | Amarillo | 10 g | 60 min | 8.8 % |
| Boil | Mosaic | 23 g | 20 min | 11.7 % |
| Boil | Amarillo | 20 g | 15 min | 8.8 % |
| Boil | Amarillo | 50 g | 7 min | 8.8 % |
| Boil | Mosaic | 30 g | 2 min | 11.7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|-----------------------------------|-----|-----|--------|--------------------|
| Safale - American Ale Yeast US-05 | Ale | Dry | 11.5 g | Fermentis / Safale |
|-----------------------------------|-----|-----|--------|--------------------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|------------|--------|---------|--------|
| Fining | Irish moss | 4 g | Boil | 10 min |