

# Brian

---

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **37**
- SRM **4.5**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

## Steps

- Temp **72 C**, Time **60 min**
- Temp **80 C**, Time **10 min**

## Mash step by step

- Heat up **10.5 liter(s)** of strike water to **80.7C**
- Add grains
- Keep mash **60 min** at **72C**
- Keep mash **10 min** at **80C**
- Sparge using **8.2 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3 kg (85.7%)   | 80 %  | 5   |
| Grain | Weyermann - Carapils | 0.5 kg (14.3%) | 78 %  | 4   |

## Hops

| Use for | Name                   | Amount | Time     | Alpha acid |
|---------|------------------------|--------|----------|------------|
| Boil    | Target                 | 10 g   | 60 min   | 10.5 %     |
| Boil    | Columbus/Tomahawk/Zeus | 20 g   | 10 min   | 15.5 %     |
| Dry Hop | Columbus/Tomahawk/Zeus | 30 g   | 7 day(s) | 15.5 %     |
| Dry Hop | Galaxy                 | 30 g   | 3 day(s) | 15 %       |

## Yeasts

| Name        | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 12 g   | Safale     |

## Extras

| Type | Name                     | Amount | Use for   | Time     |
|------|--------------------------|--------|-----------|----------|
| Herb | kawa ziarnista skruszona | 200 g  | Secondary | 2 day(s) |

|        |                   |       |      |        |
|--------|-------------------|-------|------|--------|
| Flavor | skórka pomarańczy | 100 g | Boil | 10 min |
|--------|-------------------|-------|------|--------|