BITTER 1

- Gravity 14 BLG
- ABV **5.8** %
- IBU **40**
- SRM **7.3**
- Style Extra Special/Strong Bitter (English Pale Ale)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.8 liter(s)
- Total mash volume 22.4 liter(s)

Steps

- Temp 67 C, Time 80 min
 Temp 75 C, Time 5 min

Mash step by step

- Heat up 16.8 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 80 min at 67C
- Keep mash 5 min at 75C
- Sparge using 14.1 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

| Туре | Name | Amount | Yield | EBC |
|-------|---------------------------|-----------------------|-------|-----|
| Grain | Simpsons - Maris Otter | 5 kg <i>(89.3%)</i> | 81 % | 6 |
| Grain | crystal light | 0.25 kg <i>(4.5%)</i> | 74 % | 100 |
| Grain | Amber Malt | 0.25 kg <i>(4.5%)</i> | 75 % | 43 |
| Grain | Słód owsiany Fawcett | 0.1 kg <i>(1.8%)</i> | 61 % | 5 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil | Junga | 30 g | 60 min | 10.7 % |
| Boil | East Kent Goldings | 30 g | 5 min | 5.8 % |
| Boil | Fuggles | 25 g | 5 min | 5.9 % |

Yeasts

| Name | Туре | Form | Amount | Laboratory |
|--------------------------|------|--------|--------|------------------|
| FM11 Wichrowe Wzgórza | Ale | Liquid | 900 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|-----------|---------------------------------------|--------|---------|------|
| . , , , , | · · · · · · · · · · · · · · · · · · · | Amount | 050 101 | |

| Fining | whirfloc | 1 a | Boil | 5 min |
|--------|----------|-----|------|-------|
| 3 | | 3 | | _ |

Notes

 Starter krecony 2 dni Mar 11, 2020, 12:00 AM