Kölsch & Tea

- Gravity 10.5 BLG
- ABV ----
- IBU 22
- SRM 3.2 • Style Kölsch

Batch size

- Expected quantity of finished beer 19 liter(s)
- Trub loss 5 % •
- Size with trub loss 20.5 liter(s) •
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 23.6 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg ٠
- Mash size 11.4 liter(s) .
- Total mash volume 15.2 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 63 C, Time 45 min
 Temp 72 C, Time 25 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 11.4 liter(s) of strike water to 57.3C
- ٠ Add grains
- Keep mash 10 min at 52C •
- Keep mash 45 min at 63C
- Keep mash 25 min at 72C
- Keep mash 10 min at 78C
- Sparge using 16 liter(s) of 76C water or to achieve 23.6 liter(s) of wort

Fermentables

| Туре | Name | Amount | Yield | EBC |
|-------|--------------|-----------------------|-------|-----|
| Grain | Pilzneński | 3 kg (78.9%) | 81 % | 4 |
| Grain | Pszeniczny | 0.6 kg <i>(15.8%)</i> | 85 % | 4 |
| Grain | Caramel Pils | 0.2 kg <i>(5.3%)</i> | 75 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------|--------|--------|------------|
| Boil | Magnum | 10 g | 60 min | 13.5 % |
| Aroma (end of boil) | Hersbrucker | 25 g | 15 min | 3 % |

Yeasts

| Name | Туре | Form | Amount | Laboratory |
|---|-------|------|--------|-----------------|
| CALIFORNIAN LAGER M54 Mangrove Jack's | Lager | Dry | 10 g | Mangrove Jack's |

Extras

| Type | Namo | Amount | Use for | Timo |
|------|------|--------|---------|------|
| Туре | Name | Amount | USEIO | Time |
| - | | | | |

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

| Flavor | Earl Gray | 100 g | Secondary | 2 day(s) |
|--------|-----------|-------|-----------|----------|
|--------|-----------|-------|-----------|----------|