

Radschläger - Dusseldorf Altbier

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **40**
- SRM **14.1**
- Style **Düsseldorf Altbier**

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 **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **17.5 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **5 min** at **78C**
- Sparge using **12.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|--------------|-------|-----|
| Grain | Weyermann - Vienna Malt | 2 kg (40%) | 81 % | 8 |
| Grain | Briess - Munich Malt 20L | 2 kg (40%) | 74 % | 39 |
| Grain | Słód Caramunich Typ II Weyermann | 0.5 kg (10%) | 73 % | 120 |
| Grain | Weyermann - Caraamber | 0.5 kg (10%) | 75 % | 65 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|-----------|--------|--------|------------|
| Boil | Hallertau | 60 g | 60 min | 5.4 % |
| Boil | Saphir | 25 g | 10 min | 3.8 % |
| Whirlpool | Saphir | 75 g | 0 min | 3.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------|------|--------|---------|------------------|
| FM42 Stare Nadreńskie | Ale | Liquid | 1500 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | Mech Irlandzki | 5 g | Boil | 10 min |

Notes

- Fermentacja:
Burzliwa (7-8 dni w 17-18 st. C)
Cicha (7-8 dni w 17-18 st. C)

Butelkowanie:

Syrop cukrowy na refermentacje (110g cukru w 500 ml wody)

Dojrzewanie piwa:

3 tygodnie w temperaturze 16-18 st. C.

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