

# Batch #50 - Sep 30, 2024

## Rotbier Dave - 5.2%

Brewer:

Type: All Grain

IBU : 25 (Tinseth)  
 BU/GU : 0.52  
 Color : 37 EBC  
 Carbonation : 2.4 CO2-vol

Pre-Boil Gravity : 11 °P  
 Original Gravity : 11.8 °P  
 Final Gravity : 2.2 °P

### Fermentables (5.23 kg)

2.3 kg - Munich Dark 22 EBC (44%)  
 2.3 kg - Pilsner Premium 4.8 EBC (44%)  
 280 g - Caramunich III 140 EBC (5.4%)  
 280 g - Special X 350 EBC (5.4%)  
 70 g - Pale Chocolate 600 EBC (1.3%)

### Hops (70 g)

60 min - 10 g - Perle - 8.9% (9 IBU)  
 30 min - 10 g - Perle - 8.9% (7 IBU)  
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 5 min - 50 g - Perle - 8.9% (9 IBU)

### Miscellaneous

Mash - 3 g - Calcium Chloride (CaCl2)  
 Mash - 2 g - Canning Salt (NaCl)  
 Mash - 5 g - Gypsum (CaSO4)  
 Sparge - 1.25 g - Calcium Chloride (CaCl2)  
 Sparge - 2.09 g - Gypsum (CaSO4)

### Yeast

2 pkg - Fermentis Saflager West European Lage...

### Speidel Braumeister 20L

Batch Size : 25 L  
 Boil Size : 29.58 L  
 Post-Boil Vol : 27.08 L

Mash Water : 23 L  
 Sparge Water : 9.58 L  
 Boil Time : 60 min  
 Total Water : 32.58 L  
 30% diluted with 9.77 L Nämberch

Brewhouse Efficiency: 74%  
 Mash Efficiency: 77%

### Mash Profile

Protein rest plus beta- and Narziss rest  
 52 °C - 5 min - Temperature  
 64 °C - 45 min - Temperature  
 68 °C - 45 min - Temperature  
 75 °C - 1 min - Temperature

### Fermentation Profile

Lager (Standard)  
 9 °C - 5 days - Primary  
 12 °C - 3 days - Primary  
 1 °C - 3 days - Cold Crash

### Water Profile

Nämberch voll entsalzt  
 Ca 107 Mg 9 Na 27 Cl 108 SO 128 HCO 93  
 SO/Cl ratio: 1.2  
 Mash pH: 5.28

### Measurements

Mash pH: 5.49

Boil Volume: 31

Pre-Boil Gravity: 11

Post-Boil Kettle Volume:

Original Gravity: 12

Fermenter Top-Up:

Fermenter Volume: 27

Final Gravity: 2.8

Bottling Volume:



37 EBC

### Batch Log

September 30, 2024	Brew Date
September 30, 2024	Fermentation Start

# Batch #50 - Sep 30, 2024

Batch Log	
September 30, 2024 8:01 PM	Status: Fermenting
October 10, 2024 12:25 PM	Status: Conditioning
October 10, 2024	Bottling Date