

American Rye Stout - The LumberJack - brokreacja

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **83**
- SRM **27.5**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **3 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **26.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.2 liter(s)**
- Total mash volume **20.2 liter(s)**

Steps

- Temp **72.5 C**, Time **0 min**
- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **15.2 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **0 min** at **72.5C**
- Keep mash **10 min** at **78C**
- Sparge using **16 liter(s)** of **76C** water or to achieve **26.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------------|-----------------|-------|------|
| Grain | Weyermann - Pale Ale Malt | 2.8 kg (55.4%) | 85 % | 7 |
| Grain | Weyermann - Rye Malt | 0.95 kg (18.8%) | 85 % | 7 |
| Grain | Monachijski typ II 20-25 EBC Weyermann | 0.7 kg (13.9%) | 80 % | 20 |
| Grain | Weyermann - Carafa III | 0.2 kg (4%) | 70 % | 1024 |
| Grain | Weyermann - Chocolate Rye | 0.2 kg (4%) | 20 % | 493 |
| Grain | Weyermann - Chocolate Wheat | 0.2 kg (4%) | 74 % | 788 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil | Columbus/Tomahawk/Zeus | 20 g | 60 min | 15.5 % |
| Boil | Citra | 15 g | 30 min | 12 % |
| Boil | Simcoe | 15 g | 30 min | 13.2 % |
| Boil | Citra | 15 g | 15 min | 12 % |

| | | | | |
|------|-------|------|--------|------|
| Boil | Citra | 15 g | 15 min | 12 % |
|------|-------|------|--------|------|

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 23 g | Fermentis |