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# Test report of biochar

Date: 2026.06.05

| Sample information | | | | | |
|---|---|---|---|---|---|
| Sample name | 500°青稞炭 | | Sample weight | | |

## Test elements

### Test Ash

| Test process | | |
|---|---|---|
| Number of test | 1 | 2 |
| Crucible number | A | B |
| Crucible mass $M_0$ (g) | 16.9189g | 17.6723g |
| Sample and crucible mass $M_1$ (g) | 17.8665g | 18.6087g |
| Sample mass (g) $M_1$-$M_0$ | 0.9476g | 0.9364g |
| The mass of the crucible and the | 17.0356g | 17.7851g |
| Total ash mass N (g) $M_2$-$M_0$ | 0.1167g | 0.1128g |
| Total ash (%) | 12.3% | 12.0% |
| Calculation | Total ash (%)=100× (M2-M0) / (M1-M0) | |
| Average | 12.18% | |

### Test Moisture

| Test process | | | | | |
|---|---|---|---|---|---|
| Number of test | 1 | 2 | | | |
| Sample mass | 3.03g | 3.065g | | | |
| Moisture(%) | 0.75% | 0.52% | | | |
| Average | 0.64% | | | | |
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### Test volatiles

| Test process | | |
|---|---|---|
| Number of test | 1 | 2 |
| Crucible number | A | B |
| Crucible mass $M_0$ (g) | 24.3759g | 23.8508g |
| Sample and crucible mass $M_1$ (g) | 25.3469g | 24.804g |
| Sample mass (g) $M_1$-$M_0$ | 0.971g | 0.9532g |
| The mass of the crucible and the total volatiles M2 (g) | 25.101g | 24.563g |
| Total volatiles mass N (g)$M_1$-$M_2$ | 0.2459g | 0.241g |
| Total Volatiles (%) | 25.3% | 25.3% |
| Calculation | Total volatiles (%)=100× ($M_1$-$M_2$) / ($M_1$-$M_0$) | |
| Average | 25.30% | |

### Test fixed carbon

| Test summary | |
|---|---|
| Moisture Mt% | 0.64% |
| Analysis moisture Mad% | 0.06% |
| Ash Aad% | 12.18% |
| Volatiles Vad% | 25.30% |
| SulfurSt.d% | |
| Fixed carbon Fcad% | 62.45% |
| Coke 1-8 CRC | 4 |
| High calorific value Kcal/kg | |
| Low calorific value Kcal/kg | |
| | |

| Noted:The above data is for reference only | Test person: | Check: |
|---|---|---|