**S1** The fomulation of six different AS compost

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Main material** | **Rapeseed cake** | **CaSO4** | **CaCO3** | **Ca(H2PO4)2·H2O** | **CO(NH2)2** | **Theoretical N** | **Theoretical C/N** |
| **WS** **compost** | 85% | 10% | 1.5% | 1.5% | 1% | 1% | 2.06 | 34.55 |
| **RS compost** | 85% | 10% | 1.5% | 1.5% | 1% | 1% | 2.25 | 30.42 |
| **CS compost** | 90% | 5% | 1.5% | 1.5% | 1% | 1% | 1.85 | 29.75 |
| **CC compost** | 83% | 12% | 1.5% | 1.5% | 1% | 1% | 2.14 | 33.32 |
| **C compost** | 95.2% | 0% | 1.5% | 1.5% |  1 % | 0.8% | 2.04 | 29.96 |
| **B compost** | 83% | 12% | 1.5% | 1.5% | 1% | 1% | 1.62 | 34.42 |