TABLE S-I.The chemical treatment scheme and list of samples

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| Modification condition | Sample code |
| Concentration | Temperature | Time, min |
| Unmodified sample – control |  | FC |
| 5% NaOH | Room temperature | 3060120 | FH5R30FH5R60FH5R120 |
| 7% NaOH | Room temperature | 3060120 | FH7R30FH7R60FH7R120 |
| 10% NaOH | Room temperature | 3060120 | FH10R30FH10R60FH10R120 |
| 18% NaOH | Room temperature | 3060120 | FH18R30FH18R60FH18R120 |
| 5% NaOH | Boiling temperature | 3060120 | FH5B30FH5B60FH5B120 |
| 7% NaOH | Boiling temperature | 3060120 | FH7B30FH7B60FH7B120 |
| 10% NaOH | Boiling temperature | 3060120 | FH10B30FH10B60FH10B120 |
| 5 g L-1 NaClO2 | Boiling temperature | 304560 | FC5B30FC5B45FC5B60 |
| 10 g L-1 NaClO2 | Boiling temperature | 304560 | FC10B30FC10B45FC10B60 |
| 15 g L-1 NaClO2 | Boiling temperature | 304560 | FC15B30FC15B45FC15B60 |
| 20 g L-1 NaClO2 | Boiling temperature | 304560 | FC20B30FC20B45FC20B60 |