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 | 30  60  120 | FH5R30  FH5R60  FH5R120 |
| 7% NaOH | Room temperature | 30  60  120 | FH7R30  FH7R60  FH7R120 |
| 10% NaOH | Room temperature | 30  60  120 | FH10R30  FH10R60  FH10R120 |
| 18% NaOH | Room temperature | 30  60  120 | FH18R30  FH18R60  FH18R120 |
| 5% NaOH | Boiling temperature | 30  60  120 | FH5B30  FH5B60  FH5B120 |
| 7% NaOH | Boiling temperature | 30  60  120 | FH7B30  FH7B60  FH7B120 |
| 10% NaOH | Boiling temperature | 30  60  120 | FH10B30  FH10B60  FH10B120 |
| 5 g L-1 NaClO2 | Boiling temperature | 30  45  60 | FC5B30  FC5B45  FC5B60 |
| 10 g L-1 NaClO2 | Boiling temperature | 30  45  60 | FC10B30  FC10B45  FC10B60 |
| 15 g L-1 NaClO2 | Boiling temperature | 30  45  60 | FC15B30  FC15B45  FC15B60 |
| 20 g L-1 NaClO2 | Boiling temperature | 30  45  60 | FC20B30  FC20B45  FC20B60 |