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Title: Cationic Nanofibrillar Cellulose with High Antibacterial Properties

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**Research highlights**

► Cationic nanofibrillar (C-NFC) cellulose was prepared via a high pressure homogenization ► the quaternization of the pulp was shown to facilitate the defibrillation processes ► the cationic NFC was composed of individual fibrils 4-5 nm in width and length in the micron scale was ► the inclusion of C-NFC was shown to efficiently enhance the antibacterial activity

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