

Table S2: Color parameter of NCs, ALKs and Oven-dried gelatin.

| | NCs | ALKs | Gelatin |
|--------------------------------|----------------|---------------|----------------|
| Tristimulus | X = 1870.4936 | X = 3208.7604 | X = 2213.4009 |
| | Y = 1982.7871 | Y = 3325.9503 | Y = 2322.3236 |
| | Z = 1964.3733 | Z = 2553.0068 | Z = 2033.0548 |
| Whiteness | WI = 1955.6327 | WI= 3230.7691 | WI = 2261.2001 |
| Tint Index | T = 1981.6514 | T= 3309.6017 | T = 2314.0167 |
| Yellowness ASTM E313-00 | YI = 10.1987 | YI= 38.2670 | YI = 24.5286 |
| Gardner ASTM D6166 | Gtm = 2.3176 | Gtm= 4.2726 | Gtm = 3.4203 |
| Gardner DIN EN1557 | Gtm = 2.2618 | Gtm= 4.3417 | Gtm = 3.4353 |