

獲美國 FDA、USDA、EPA 認證及 OEKO-TEX ECO PASSPORT  
100% 生物基抗菌和防臭材料:

### Ceravida Fresh

工業革命後，大量產業用火力發電、石油產業，產生了大量的溫室氣體，其中造成暖化最主要的溫室氣體就是二氧化碳。根據數據指出，若在 2050 年前，全球碳排放量沒辦法降到 2005 年時排放量，地球將持續暖化，在 2100 年地球就會不適合居住。

為改善此狀況，在 2015 年巴黎氣候協議中，各國達到共識期望在 2050 年前達到**碳平衡**，也就是**產出的碳排放量-減少的碳排放量=0**



Resources: <https://carbonliteracy.com/uks-2050-zero-carbon-target/>

消費者對於健康的需求以及減少使用化學成分產品的期待更加提升，許多消費者願意選擇對環境無害的產品、更願意多花費成本來取得有機產品，許多品牌領導者也發布了使用減少碳足跡的生物基材料需求。

氣候變化法規不僅限於最終產品，而是將全面應用於整個過程原材料、製造、流通、消費、廢棄的全過程。

紡織業等消費領域也應考慮消費者應對氣候變化的直接訴求改變，例如抵制。這就是全球紡織行業企業積極應對氣候變化的原因。

**CERAVIDA FRESH 可有效消除來自微生物及化學臭源孳生的異味，同時符合紡織行業要求的ESG解決方案。**



**100% Vegan**

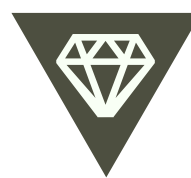
植物萃取



海洋元素



礦物質

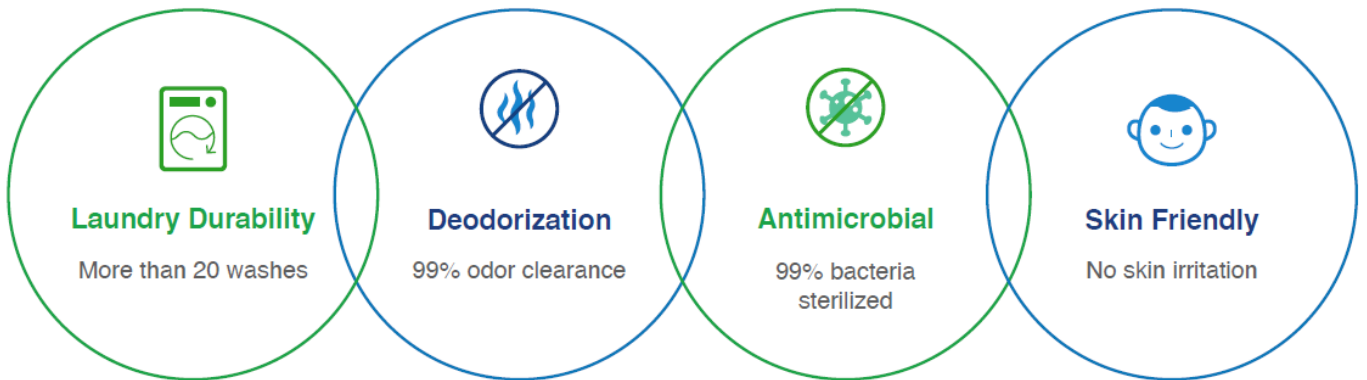


生物聚合物





功效



**耐洗**  
即使在使用天然粘  
合劑進行大量洗滌  
後，仍能保持防臭  
和抗菌功能。

**抗臭**  
通過抑制細菌生長、  
吸附和消除引起氣  
味的分子，保持清  
爽的感覺。

**抗菌**  
通過抑制細菌生長，  
實現消除異味功能。

**親膚**  
使用天然低過敏性  
材料，對皮膚  
無刺激。

認證



天然100%生物基材料  
獲得美國農業部認證  
的生物基紡織處理劑



EU Oekotex 認證  
世界上首支獲得  
Oekotex 抗菌活性  
清單註冊及認證的  
天然抗菌處理劑



EPA 認證材料  
首支獲得美國環保署  
批准的安全抗菌劑



FDA 認證材料  
美國FDA批准醫療器  
械(健康產品)的技術  
(醫療器械類，一般  
健康)

# 測試報告

**SGS**  
**Test Report** No. F690101/LF-CTSAYS19-04861 Issued Date: 2019. 03. 21 Page 3 of 11

**Sample Description:**  
**A. BION TREATMENT**

Sample No.	Component No.	Component Description	Remark
A	1.	WHITE COTTON BION TREATMENT FABRIC	/

**Remarks :**

- \* Insufficient sample for testing
- The coating / printed material is tested together with the base substrate, the test result is the actual concentration from laboratory testing.

**Test Method:**  
 SGS In-House method - Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD, HPLC-MS and colorimetric method

**Test Result (per test group):**

No.	Substance Name	CAS No./ EC No.	RL (%)	Concentration (%)
-	All tested SVHC	-	-	1 ND

**Notes :**

- RL = Reporting Limit. All RL are based on homogenous material  
 ND = Not detected (lower than RL), ND is denoted on the SVHC substance.  
 N/A = The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be excluded entirely. It may be assumed that the detected element(s) have a non-SVHC source.
- \* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:  
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>  
 The client is advised to review the chemical formulation to ascertain above metal substances present in the article.  
 RL = 0.001% is evaluated for element (i.e. aluminum, antimony, arsenic, barium, boron, cadmium, calcium, chromium, chromium (VI), cobalt, lead, potassium, titanium, silicon, sodium, strontium, zinc and zirconium respectively), except molybdenum RL = 0.0001%
- The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

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## 危害測試

Ceravida Fresh 是環境友善的材料，不包含金屬、邻苯二甲酸酯基质的塑化劑、危害物質等，已由歐洲 SGS 的REACH 及 Oeko-tex 測試認證。

**SGS**  
**Test Report** No. SL8199264483101TX Date: July 03, 2019 Page 2 of 2

**Test Result**  
 The below test was conducted in SGS SHANGHAI LAB

**Declaration of Decoloral Property**  
 (ISO 17025 2.11.4, Part 7, Annex B.6.6, amended)  
 Initial concentration of odor gas: Ammonia, 100u/L

Test specimen: As received

**Test Result:**  
 Reduction rate(%) of Ammonia after 2 hrs: 100.0 Requirement: Min.70%

Note:  
 1. Reductive rate(%) = 100% X (concentration of testing gas in 0hrs - after 2hrs) / concentration of testing gas in specimen after 0hrs / concentration of testing gas in 0hrs after 0hrs.  
 2. Ignore the reduction rate, before the coloration property of the fabric.

Sample Photo

Test Result:		
Reduction rate(%) of Ammonia after 2 hrs:	100.0	Requirement Min.70%

\*\*\*End of Report\*\*\*

## 除臭測試

**SGS**  
**Test Report** No. SL617062478031TX Date: Jul 11, 2017 Page 2 of 2

**TEST RESULT(S):**  
 The Below test result was concluded by SGS GZ food Lab.

**Antimicrobial Activity Test**  
 Test Method: With reference to AATCC 100-2012  
 Test Organisms: Staphylococcus aureus ATCC 6538, Klebsiella pneumoniae ATCC 4352

Test organisms	Concentration of bacteria (cfu/mL)	The number of bacteria recovered from		Reduction (%)
		at 04h contact time (cfu/sample)	at 24h contact time (cfu/sample)	
Staphylococcus aureus ATCC 6538	1.6 x 10 <sup>6</sup>	Sample	1.0 x 10 <sup>2</sup>	> 99.9
		Control sample	5.2 x 10 <sup>7</sup>	
Klebsiella pneumoniae ATCC 4352	1.5 x 10 <sup>6</sup>	Sample	1.0 x 10 <sup>2</sup>	> 99.9
		Control sample	2.4 x 10 <sup>7</sup>	

Remark:

Test organisms	Concentration of bacteria (cfu/mL)	The number of bacteria recovered from		Reduction (%)
		at 04h contact time (cfu/sample)	at 24h contact time (cfu/sample)	
Staphylococcus aureus ATCC 6538	1.6 x 10 <sup>6</sup>	Sample	1.0 x 10 <sup>2</sup>	> 99.9
		Control sample	5.2 x 10 <sup>7</sup>	
Klebsiella pneumoniae ATCC 4352	1.5 x 10 <sup>6</sup>	Sample	1.0 x 10 <sup>2</sup>	> 99.9
		Control sample	2.4 x 10 <sup>7</sup>	

## 抗菌測試

應用領域

