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Analysis report. ASSESSMENT OF DISINFECTANT ACTIVITY
Laboratory: DMC Research Center SLU

A) Sample information

Product: NEBUNATURE
Company: DOMCA SAU
Storage: Fresh and dry place
Active principles: Natural extract

B) Methodology

Standar Method: UNE – EN 1276:2000

Experimental conditions

Concentration (V/V): Nebunature 10.000 ppm
Contact exposure: 1 y 24 h
Temperature: 20ºC ± 1ºC
Growth method: plate count
Growth conditions: 36ºC ± 1ºC
Cultured agar: Cetrimide agar, MacConkey agar, Slanetz-Bartley, Manitol saline, Sabouraud G+, Rose Bengale Agar y broth BHI (Merck, Germany).
Microorganism: *E. coli* DMC02, *P. aeruginosa* CECT 118, *S. aureus* CECT 976, *E. faecalis* ATCC 29212 , *L. monocytogenes* CECT 4032, *Salmonella enterica* CECT 1022, *Zygosaccharomyces bailii* CECT 11997, *Candida humicola* DMC H11, *Penicillium expansum* DMC-05, *Fusarium* spp. DMC-03, *Botrytis* spp. DMC-03, *Alternaria* spp. DMC-RGS and *Aspergillus niger* ATCC 16404.

C) Results

Table 1 and 2.

Realized by:

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Date: 03/13/2018

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Table 1. NEBUNATURE			Exposure time: 1 hour
Bacteria	microbial suspension **(N)**		**NEBUNATURE 10.000 ppm**
Escherichia coli DMC 02	4.5×10^5	N_a R	< 10 > 5,6
L. monocytogenes CECT 4032	9×10^7	N_a R	< 10 > 7,9
Salmonella enterica CECT 1022	7×10^5	N_a R	< 10 > 5,8
Pseudomonas aeruginosa CECT 118	8×10^6	N_a R	< 10 > 6,9
Staphylococcus aureus CECT 976	4×10^5	N_a R	< 10 > 5,6
Enterococcus faecalis ATCC 29212	3×10^5	N_a R	< 10 > 5,4

Table 2. NEBUNATURE			Exposure time: 1 hour
Molds and yeast	microbial suspension **(N)**		**NEBUNATURE 10.000 ppm**
Zygosaccharomyces bailii CECT 11997	1×10^5	N_a R	< 10 > 5,0
Candida humicola DMC H11	2×10^5	N_a R	< 10 > 5,3
Penicillium expansum DMC-05	2×10^5	N_a R	< 10 > 5,3
Fusarium spp. DMC-03	2×10^4	N_a R	< 10 > 4,3
Botrytis spp. DMC-03	1×10^4	N_a R	< 10 > 4,0
Alternaria spp. DMC-RGS	2×10^3	N_a R	< 10 > 3,3
Aspergillus niger ATCC 16404	4×10^3	N_a R	< 10 > 3,6

N: number of bacteria at the beginning (cfu / ml)
N_a: number of bacteria after exposure to products (cfu / ml)
R: Logarithmic reduction (Logarithmic units of cfu / ml)