

-Supporting Information-

1. Methods

1.1. Air atmospheric plasma treatment of PET fabrics

Table. S1: Machine parameters of air atmospheric plasma treatment

Parameters	Values
Electrical power	750 w
Frequency	26.0 KHz
Speed	2.0 m/min
Electrode length	0.50 m
Inter-electrode distance	1.50 mm
A treatment power	60 kJ/m ²

1.2. Testing of olfactory function

Table. S2: Equivalence of odour intensity according the investigator scores

Score	Odour Intensity
0	None
1	Very low
2	Very low
3	Low
4	Low +
5	Average
6	Average +
7	Good
8	Good +

9	Very good
10	Excellent

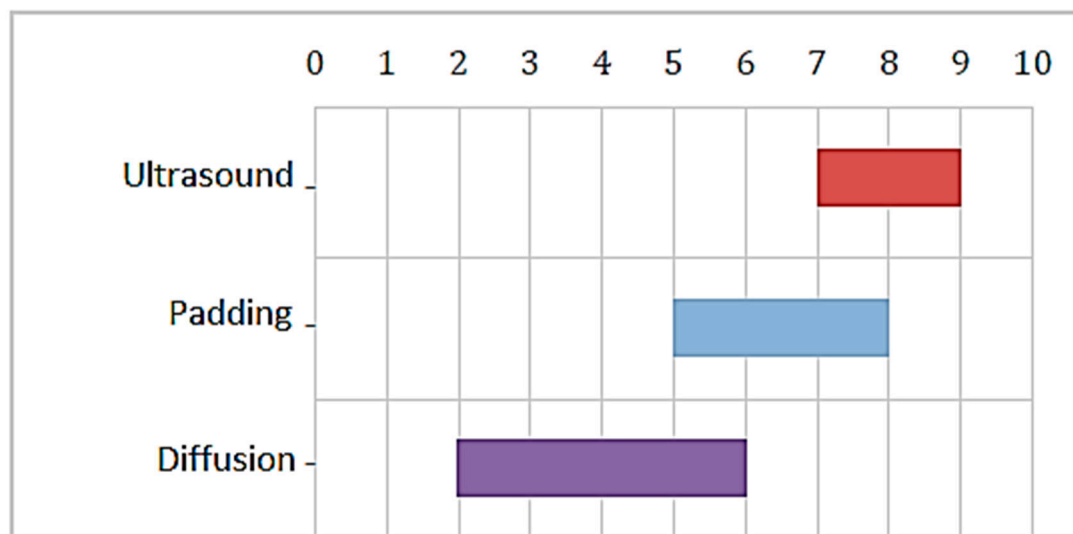


Figure.S1: Olfactory identification ability of geranium oil inserted by different processes on cotton fabrics after the 1st rub fastness test. The figure showed the resistance of geranium oil after the first rub fastness test.

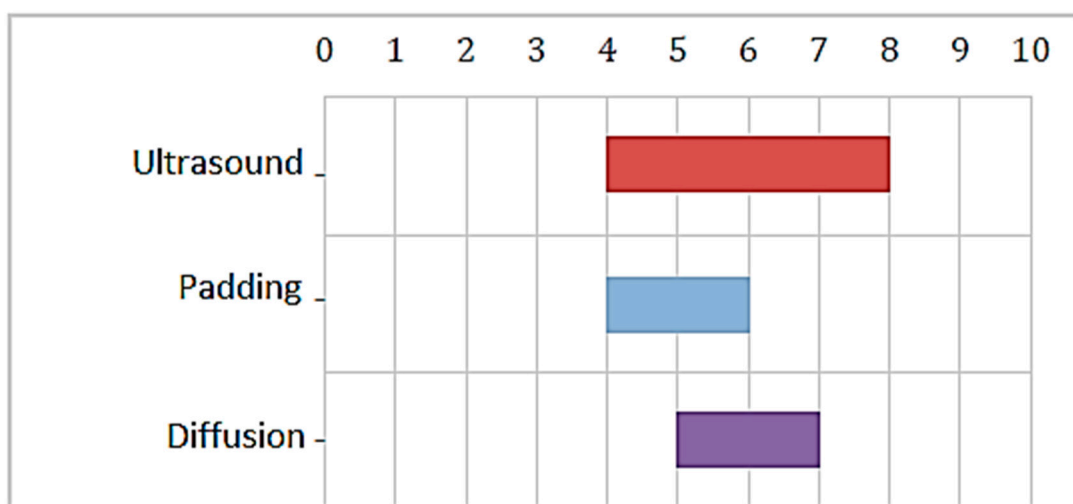


Figure.S2: Comparison of pleasant olfactory character of the treated samples with different treatment methods. The results were obtained after the 1st rub fastness test.

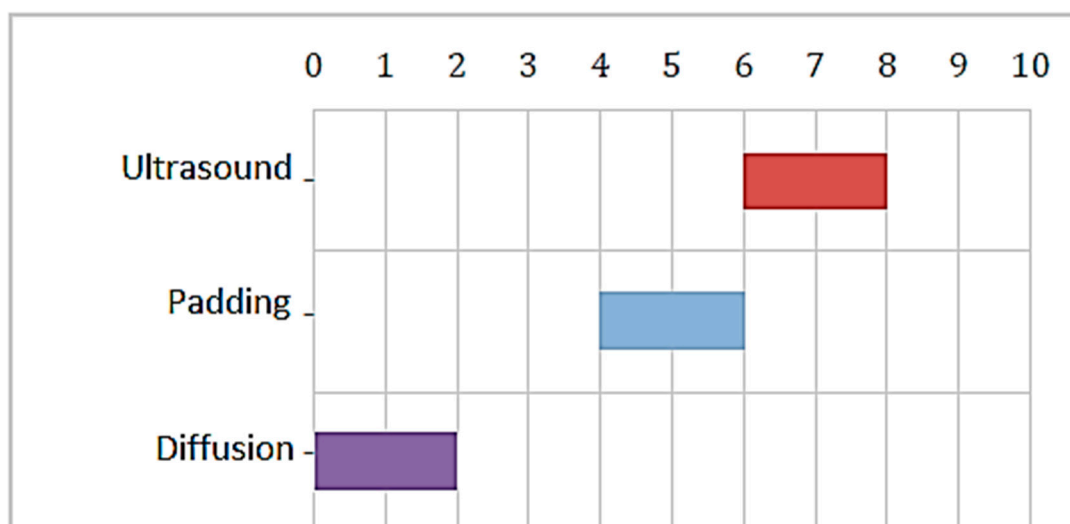


Figure.S3: Olfactory identification ability of geranium oil inserted by different processes on cotton fabrics after the 3rd rub fastness test. The figure showed the resistance of geranium oil after the third rub fastness test.

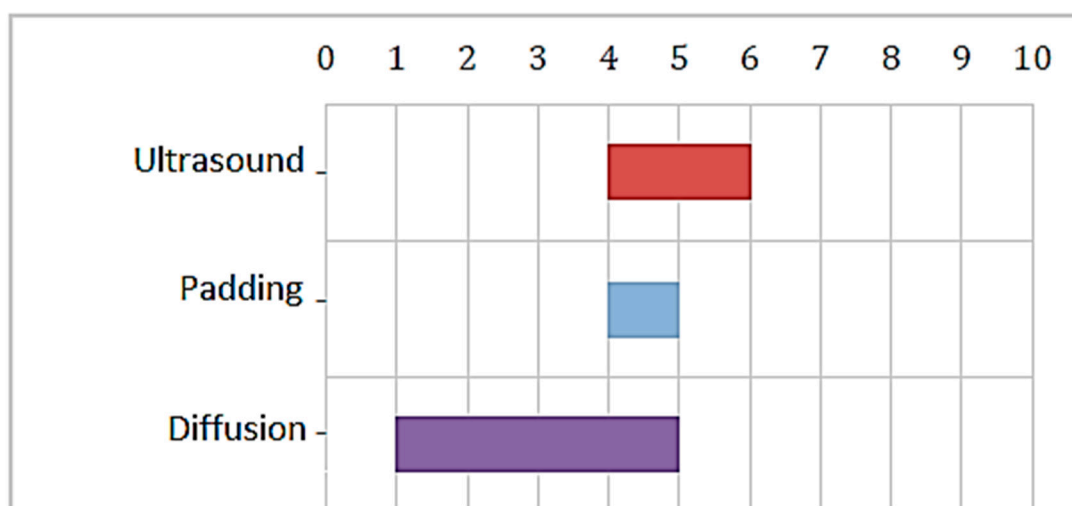


Figure.S4: Comparison of pleasant olfactory character of the treated samples with different treatment methods. The results were obtained after the 3rd rub fastness test.

1. Antibacterial measurements

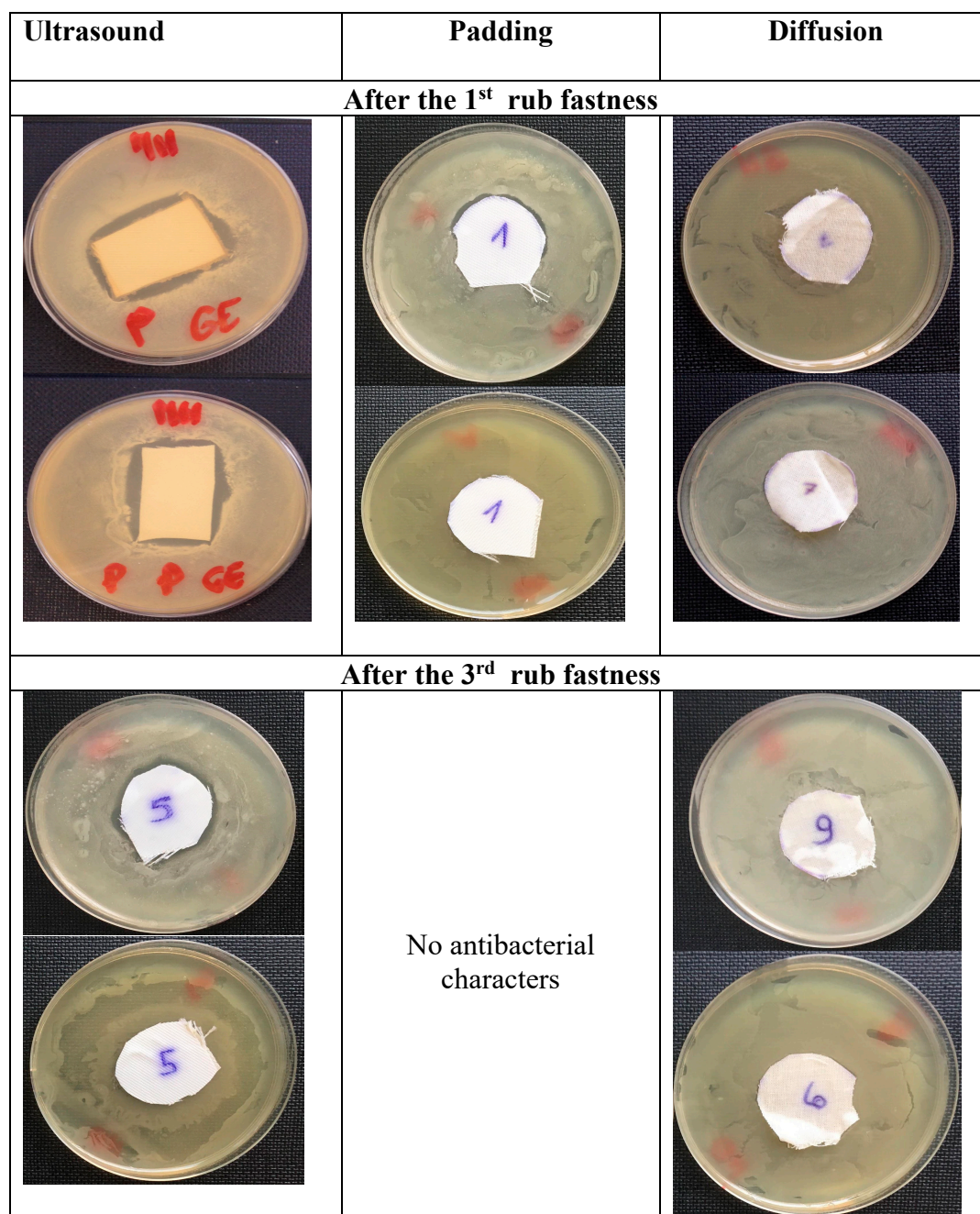


Figure.S6: Comparison on the antibacterial activity between ultrasound, diffusion and padding treatment methods. After the 1st and 3rd rub fastness test.