

EFFICACY TEST

Product Name	Lactobionic Acid
Product Code	AL00074
INCI Name	Lactobionic Acid
CAS Number	96-82-2

Testing Report of Moisturizing Ability

Test product: Lactobionic Acid

Test Concentration: 5.0% (as is)

Batch NO.: 20200911

Subjects: 4 females, 1 male

Age range: 25 - 55 years old

Test Site: Inside of Left arm

Application Frequency: Apply evenly to the marked area, and record data changes

Test Period: 0h, 0.5h, 2h, 4h, 6h

Test Parameters:

Transepidermal water loss (TEWL)

Water content in stratum corneum (WCSC)

Test condition: Temperature: 20°C - 25°C; Humidity: 40% - 60%;

Test instrument: MoistureMeterSC, VapoMeter SWL5

Design of Study: Aim to assess the moisturizing ability of the test sample

Procedure:

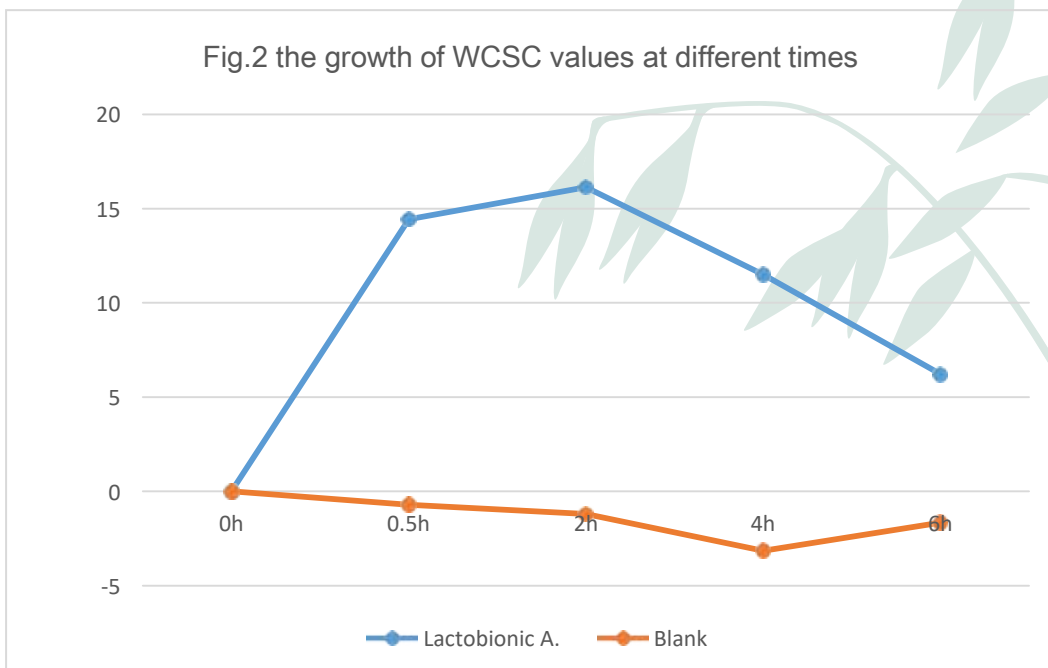
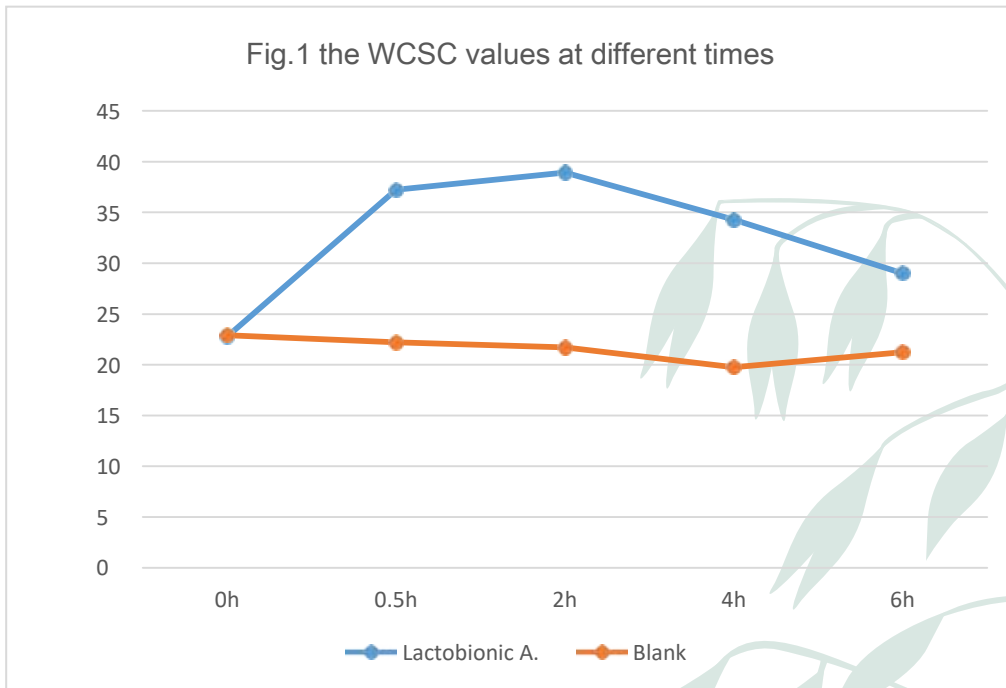
- Clean the arm with the water
- Rest for 20 minutes in the lab
- Collect data
- Apply the sample at the specified position, and collect the data at 0.5h, 2h, 4h, and 6h

Test results

Table.1 the WCSC values at different times

Sample/Time	Lactobionic Acid	Blank
0h	22.78	22.90
0.5h	37.22	22.20
2h	38.92	21.70
4h	34.28	19.75
6h	29.00	21.25

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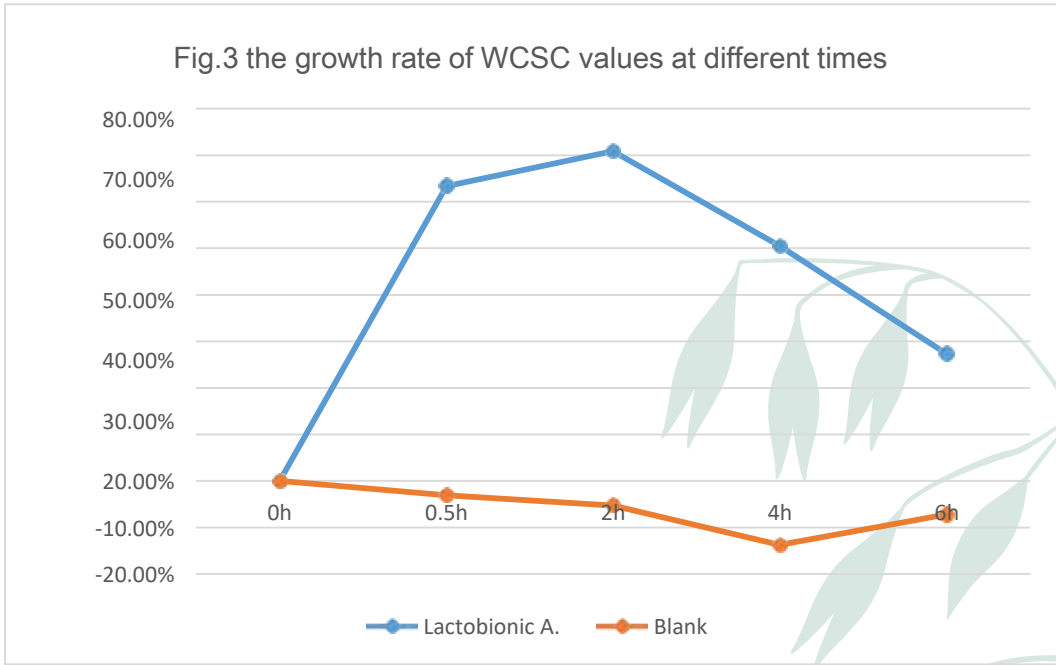
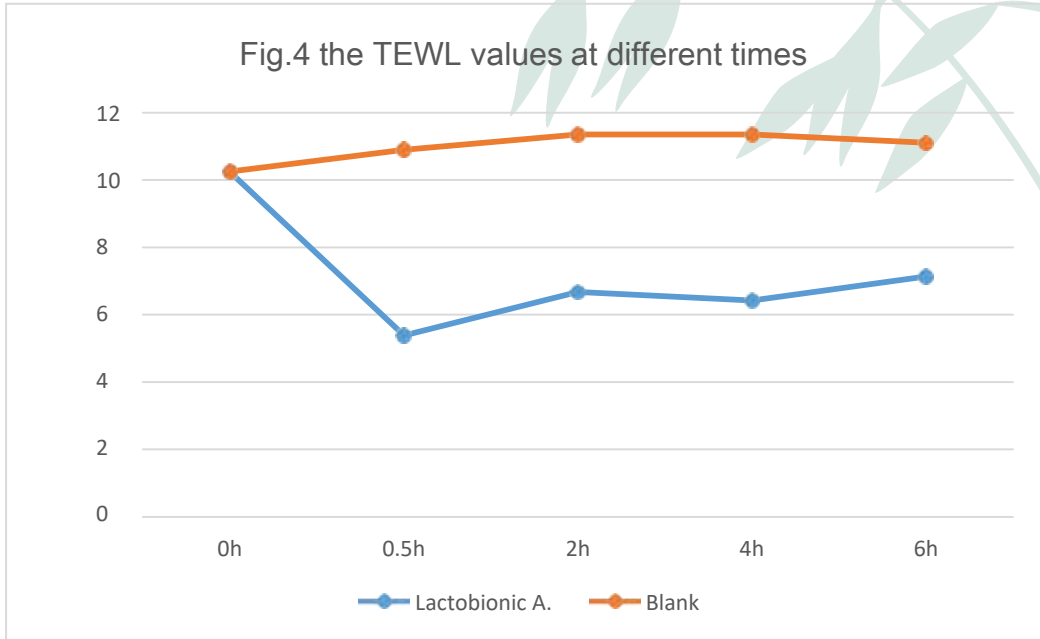
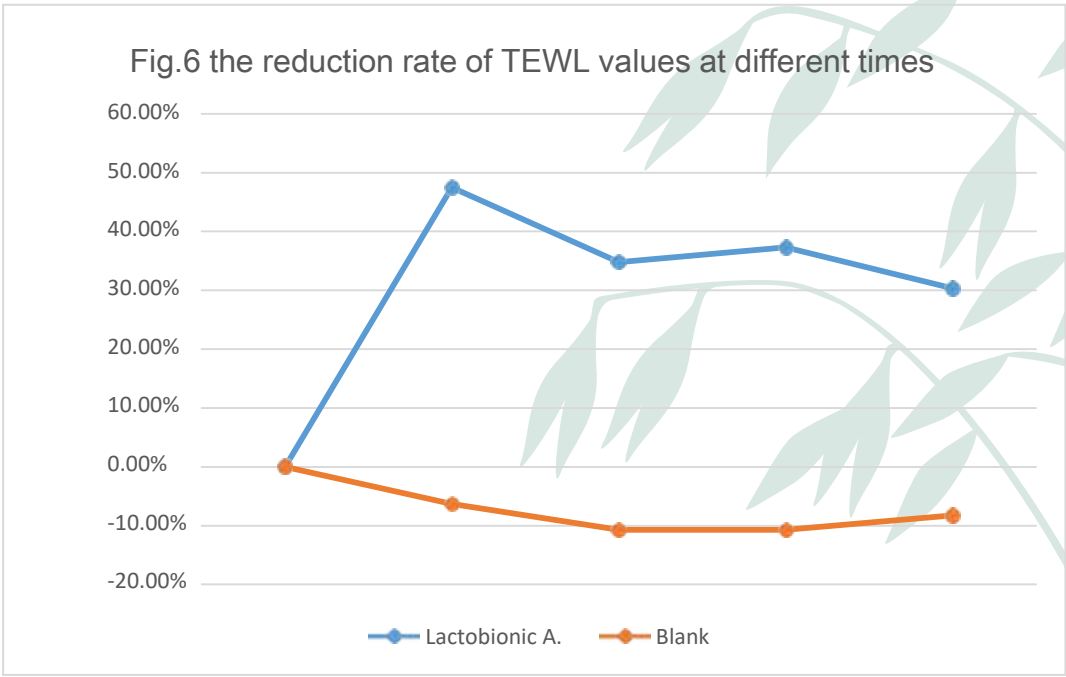
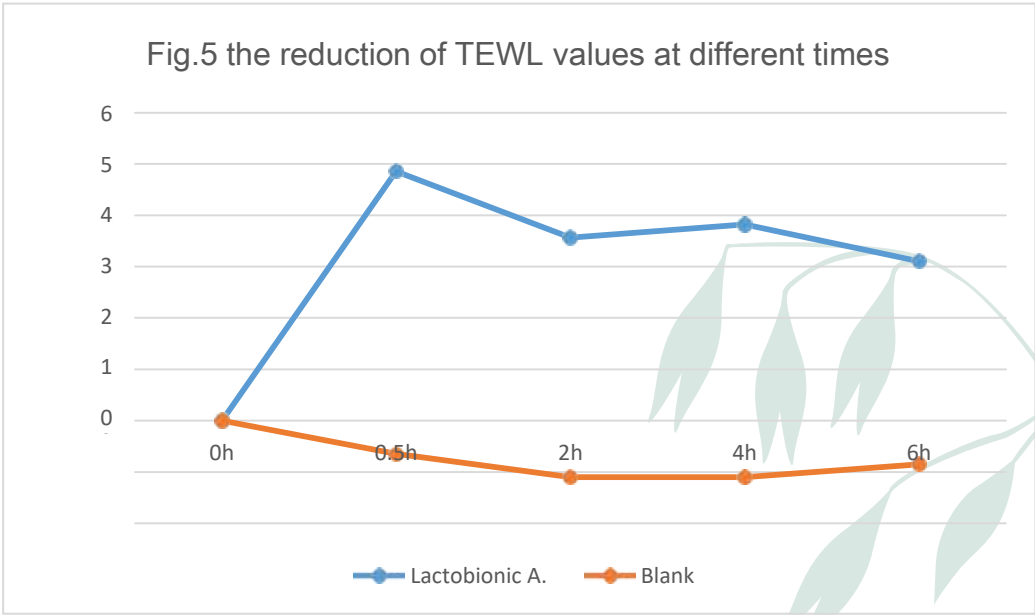


Table. 2 the TEWL values at different times

Sample/Time	Lactobionic Acid	Blank
0h	10.24	10.25
0.5h	5.38	10.90
2h	6.68	11.35
4h	6.42	11.35
6h	7.13	11.10



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Conclusions: According to the experimental results, subjects' water content in stratum corneum was significantly higher than that of blank (the higher the WCSC was, the better the moisturizing effect was) and their transepidermal water loss was significantly lower than that of blank (the lower the TEWL was, the better the moisturizing effect was).
 In summary, Lactobionic Acid showed significant moisturizing effect.