

Animal test: Stimulating own immunity (NK-cells)

Test animal

BALB/c ♀ 12-week-old mouse

1. Colostrum group N=5
2. Control group N=5

Test method

Co-culture

Lung cell : Target cell (YAC-1 cell) = 20 : 1

Measurement

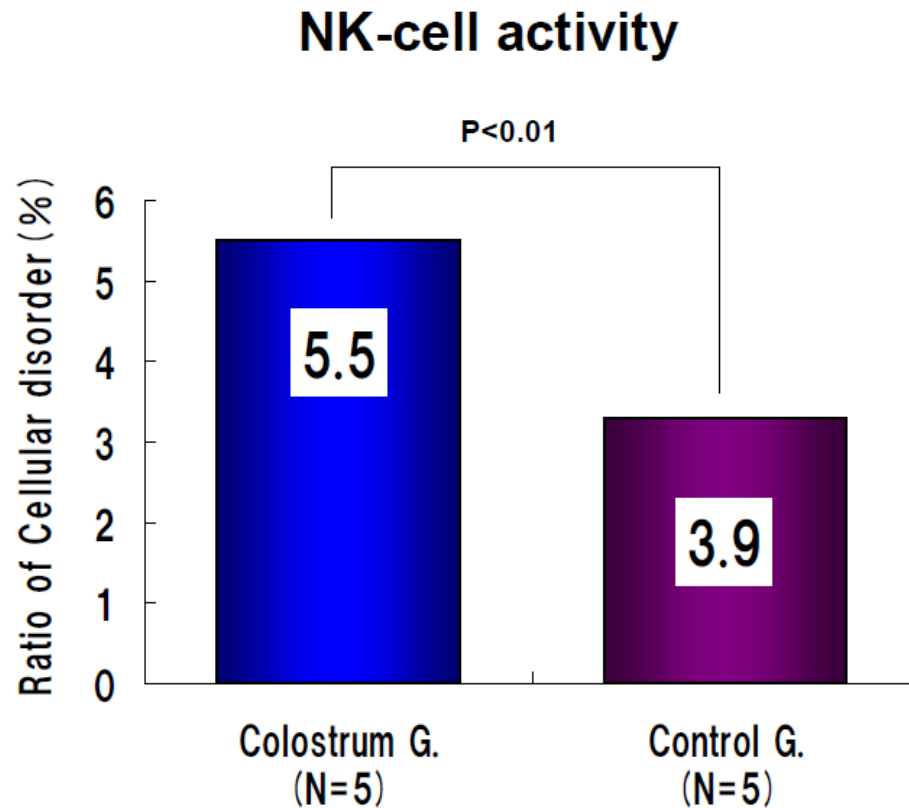
Ratio of Cellular disorder as NK-cell activity with LIVE/DEAD Cell-Mediated Cytotoxicity Kit (L7010)

Administration

1. Colostrum group; Colostrum (APS45-10) 2000 mg/kg/day
2. Control group; 0 mg/kg/day

Oral administration 3weeks (6 times/week)

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Paper presented at The 14th Symposium of Adult Disease Countermeasure Society, 2009 and Annual Meeting of Japan Society for Bioscience, Biotechnology, and Agrochemistry 2010.

Results

Taking 2000 mg/kg of APS45-10 colostrum a day the ratio of cellular disorder as NK-cell activity increased for 41%* compared to placebo in 12-week old mice. (N=5, P<0.01)

* $((5.5-3.9)/3.9) \times 100 = 41\%$

Conclusions

NK Activity is an indication of immune state. Taking APS45-10 colostrum shows a 41% increase of the ratio of cellular disorders.

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