**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 3 weeks (6 times/week)

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NK-cell activity

<table>
<thead>
<tr>
<th>Ratio of Cellular disorder (%)</th>
<th>Colostrum G. (N=5)</th>
<th>Control G. (N=5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5</td>
<td></td>
<td>3.9</td>
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P<0.01

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)

*\((5.5-3.9)/3.9\) x 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.
