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No Subacute Toxicity of *trans,trans* CLA Isomers Mixture in ICR Mouse

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Conjugated linoleic acid (CLA) is a collective term of octadecadienoic acid (C18:2) with positional (7,9; 8,10; 9,11;10,12; 11,13; and 12,14) and stereoisomeric (*t,c*; *c,t*; *c,c*; and *t,t*) isomers. The *t,t* CLA (99%), consisted of 2.6% *t12,t14*, 10.7% *t11,t13*, 36.7% *t10,t12*, 38.2% *t9,t11*, 9.5% *t8,t10*, and 2.3% *t7,t9* was prepared by acid-catalyzed method. Subacute toxicity of free- and Me-*t,t* CLA isomers was investigated in ICR female mouse. No dead animals and significant changes in body weights were observed during the experimental period. No significant difference was found between control and treated groups in clinical signs, urinary analysis, hematological appearance, blood biochemical analysis, and other signs. These results indicate that subacute toxicity of free- and Me-*t,t* CLA isomers for female ICR mice were not detected and strongly suggest that *t,t* CLA isomer administered in female ICR mice is considered to be safe.