

〈研究報告〉

## 抗ふけ剤 Climbazole の安全性評価 (第1報) —— Climbazole の変異原性試験 ——

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### Safety Evaluation of Climbazole (Antidandruff Agents) 1 — Mutagenicity Test of Climbazole —

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#### Abstract

Climbazole was developed for antifungal and preservative agents, and it is known that it also has the potential of antidandruff effects. This substance is able to apply for toiletry products such as shampoo or hair tonic, etc. Therefore, this substance was examined for mutagenic properties in the DNA repair test (rec-assay) in *Bacillus subtilis*, the reverse mutation test in *Salmonella typhimurium* and *Escherichia coli*, the chromosomal aberration test in Chinese hamster lung cells and the micronucleus test in mice. The four test systems showed no evidence of induction of DNA damage, gene mutation or chromosomal aberration in bacterial, cultured cells or mice treated with Climbazole. These results suggest that Climbazole has no mutagenic activity under these test conditions.

**Key words:** Climbazole, antidandruff agent, mutagenicity, Rec-assay, reverse mutation test, chromosomal aberration test, micronucleus test.