

**DERMAL SENSITIZATION STUDY OF
FORMALDEHYDE SOLUTION, 3% IN GUINEA PIGS**

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FINAL REPORT

**IITRI Project No. L8100
Study No. 274
Test Article No. 100**

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IIT RESEARCH INSTITUTE

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IITRI Project No. L8100

DERMAL SENSITIZATION STUDY OF
FORMALDEHYDE SOLUTION, 37% IN GUINEA PIGS
Study No. 274
Test Article No. 100

Formaldehyde Solution, 37% (Sargent Welch, lot KTKH) at a concentration of 5% was applied in 0.5 ml doses to the shaved upper left quadrant of the back of six guinea pigs once per week during an induction period of 3 weeks beginning on April 17, 1981. The test article was covered by a 3/4" x 1" patch (Webril[®] AppliPad, the Kendall Co.), held in place with Dermiclear brand transparent tape (J and J Products, Inc.). The guinea pigs were placed in individual restraining devices (Appendix II) and latex dental dam (VWR Scientific) was wrapped around the midsection of each guinea pig. Six control guinea pigs were not dosed but wrapped in the same manner. All guinea pigs were unwrapped and removed from the restrainer after 6 hours.

Two weeks after the administration of the last sensitizing patch (5/16/81), the shaved lower left quadrant of all guinea pigs was challenged with 0.5 ml of the test article. The guinea pigs were placed in restrainers and wrapped for 6 hours.

The following day the lower left quadrant of the back of all guinea pigs was dipilated with Nair[®] (Carter Products). Twenty-four hours after removal of the wrappings and several hours after dipilation, all guinea pigs were scored for erythema and edema according to Draize (Appendix I).

Neither edema nor erythema was observed at 24 hours in any guinea pig following the challenge dose. All guinea pigs were humanely killed on May 18, 1981.

This study was conducted to develop a method for determining dermal sensitization in guinea pigs. Therefore, failure to obtain positive scores resulted in the termination of the study. This summary was prepared to close the file.

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APPENDIX I

DERMAL SENSITIZATION

Study Number 274Test Article 100Score at 24 Hrs.

Animal Number	Date	Time	Erythema	Edema	Initials
741	5/17/81	12N	0	0	MR
742	5/17/81	12N	0	0	MR
743	5/17/81	12N	0	0	MR
744	5/17/81	12N	0	0	MR
745	5/17/81	12N	0	0	MR
746	5/17/81	12N	0	0	MR
747	5/17/81	12N	0	0	MR
748	5/17/81	12N	0	0	MR
749	5/17/81	12N	0	0	MR
750	5/17/81	12N	0	0	MR

CENTRAL

Read and Understood By M BeckerDate 5/27/81

DERMAL SENSITIZATION

Study Number 274Test Article 100Score at 24 Hrs.

CONTROL

Animal Number	Date	Time	Erythema	Edema	Initials
751	5/17/81	12N	0	0	MR
752	5/17/81	12N	0	0	MR

Read and Understood By M. BeckerDate 5/27/81

