ICCVAM Recommendations for Use of the LLNA for Evaluating the Allergic Contact Dermatitis Potential of Pesticide Formulations and Other Products

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Abstract

ICCVAM recommends that the national lymph node assay (LLNA) be used to evaluate the potential of new and existing compounds to cause allergic contact dermatitis. This consensus statement, developed by the ICCVAM Test Method Recommendations Working Group (TMRWG) and reviewed by an international panel of experts in the field of contact allergen testing, is based on an extensive review of the literature and available regulatory guidance. It aims to provide guidance to regulatory agencies as to the use and interpretation of LLNA results, and to researchers as to the development of test methods for use in LLNA.

Introduction

The LLNA is a rapid, in vitro method designed to assess the potential of a chemical substance to cause allergic contact dermatitis. The assay was developed to fulfill the need for a research tool that is rapidly performed and is relatively inexpensive to use and interpret. The LLNA is a functional in vitro lymph node assay (FILNA) that is similar to the lymph node assay (LNA) in that it is based on the proliferative response of lymph node cells to allergens. The assay is performed in murine lymph node cells and is relatively inexpensive and rapid to perform. The LLNA is a useful tool for predicting the potential of chemicals to cause allergic contact dermatitis in humans.

Validation Status of the LLNA

The information contained in this document was compiled in collaboration with representatives of government, industry, non-governmental organizations, and academic groups, to advance the use of the LLNA. The LLNA is validated for the testing of pesticides, select one representative positive control for testing in the LLNA, subject to the limitations outlined in Table 1. The LLNA is also validated for the testing of other chemicals, subject to the limitations outlined in Table 1.

ICCVAM Test Method Recommendations for LLNA

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References


Acknowledgments

The authors would like to thank the following individuals for their contributions to this project: ????????