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## Advanced Chemistry Development, Inc., Accelerates Preliminary-Preformulation of Drug Development with the Release of Version 7.0

**Toronto, Canada, March 20, 2003** - With the release of ACD/PhysChem version 7.0, Advanced Chemistry Development, Inc., (ACD/Labs) provides chemists with the tools to dramatically accelerate the preformulation of novel drug agents.

ACD/Labs' PhysChem software suite enables scientists to determine many of the chemical characteristics of the candidate drug agent before they measure, and augment ADME properties resulting in the elimination of unnecessary experiments during a pharmaceuticals study.

For a physical pharmacist to develop an adequate formulation capable of delivering a substance for its intended use, it is necessary to fully understand the physical and chemical properties of the candidate drug agent. With version 7.0 of ACD/Labs' PhysChem prediction modules, one can predict physical characteristics of the drug substance such as logP, logD, and pKa, establish solubility characteristics, and predetermine pH profiles.

These molecular parameters form the basis of ADME properties such as passive absorption, protein binding, tissue binding, food effect, clearance, half-life, and excretion. From this information, scientists are able to choose excipients that modulate the pharmacokinetic characteristics of the dosage form of the compound. As a result, chemists are equipped with a shortcut to the preformulation of novel drug agents.

"Through the use of the predictive power of the ACD/PhysChem program, one may easily conduct a series of Preliminary-Preformulation studies that enable better focused and more rational programs of preformulation, and thus eliminate a significant amount of unnecessary work," comments Harry G. Brittain, Center for Pharmaceutical Physics, Milford, NJ.

"In addition to helping the pharmaceuticals specialist to predict the physical molecular properties of the active ingredient, ACD/Labs provides an entire suite of tools for managing, analyzing, and interpreting solid state analytical data, including TGA, XRPD, and DSC results," adds Robert S. DeWitte, Director of Medicinal Chemistry Solutions at ACD/Labs. "The 'Gee Whiz' factor in this suite may well be the push-button report generation facility which can eliminate a full week of tedious work."

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