

BIOAVAILABILITY ASSESSMENT

SRC scientists evaluate, assess and analyze relevant data to **estimate the bioavailability of metals in humans**

HIGHLIGHTS OF SRC'S EXPERIENCE

Method Development and Site Assessment

SRC, Inc., participated in the development of protocols for in vivo and in vitro assays for assessing bioavailability and bioaccessibility. SRC also developed data reduction methods for using laboratory results at hazardous waste sites. SRC has collaborated with the U.S. Environmental Protection Agency or individual states in assessing the bioavailability and bioaccessibility at more than 20 sites with 30 different species of lead or arsenic.

Policy and Guidance Development

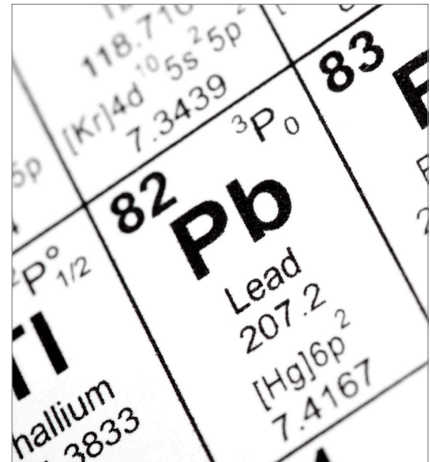
For the Superfund program, SRC is tasked with providing support to the Metals Framework and Bioavailability Workgroups in developing national

guidance (Office of Solid Waste and Emergency Response Directive) on using site-specific bioavailability data. This task includes preparing chemical-specific assessments of the state of the science on bioavailability for metals and metalloids, including lead, arsenic, cadmium, nickel, manganese and mercury.

Superfund Technical Support Center

SRC has provided both oral and dermal bioavailability assessments for the EPA's Superfund Technical Support Center for more than 100 organic and inorganic chemicals. SRC has also collaborated with EPA scientists in developing a meal-weighting approach to assess bioavailability for metals that differ between the fed and fasted states.

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BIOAVAILABILITY
ASSESSMENTS FOR THE
EPA'S SUPERFUND TECHNICAL
SUPPORT CENTER FOR MORE
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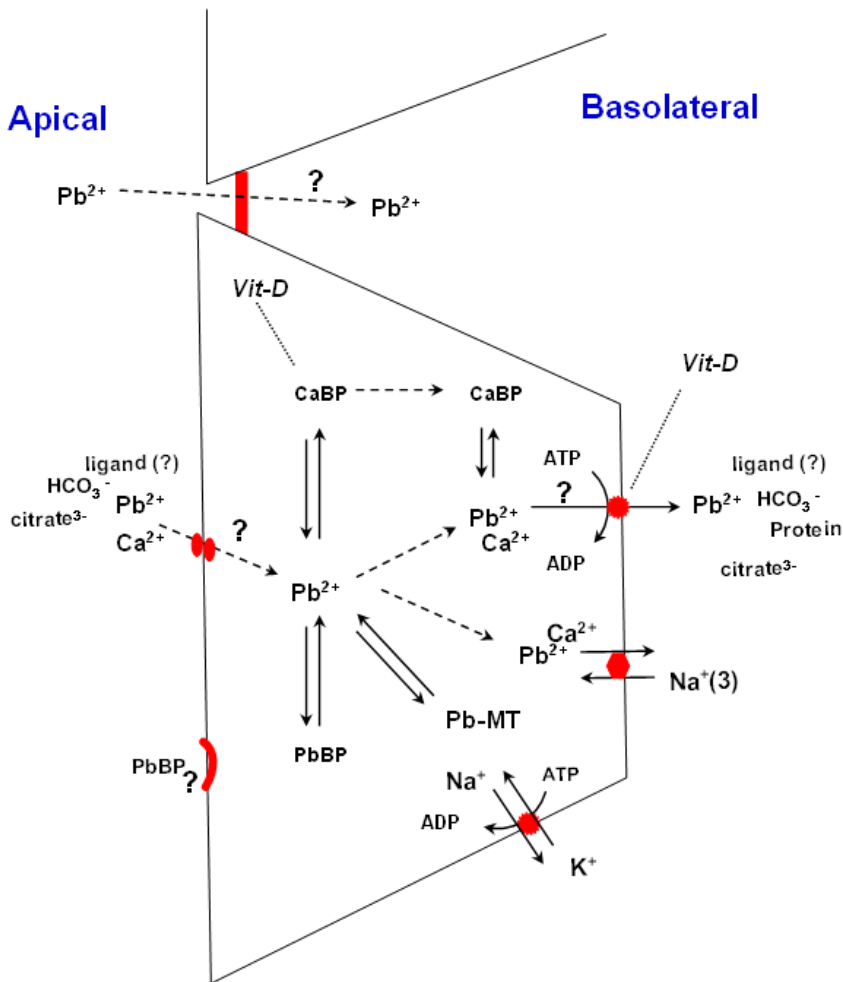


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SUPPORT ACTIVITIES

SRC can provide support on a wide-range of activities associated with the derivation and evaluation of bioavailability values for human health risk assessment:

- Full derivation of oral bioavailability and bioaccessibility values for Pb and As (including Quality Assurance Project Plan, or QAPP, laboratory analysis and data reduction)
- Literature-based estimates of oral and dermal bioavailability for other chemicals using SRC's extensive information science experience and in-house databases
- Peer review of the bioavailability and bioaccessibility values derived by others (EPA, state or potentially responsible party)



800-724-0451 • inquiries@srcinc.com • www.srcinc.com

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