



CORROSITEX

The Chemical Corrosivity
Testing System

What is CORROSITEX?

Corrositex is an **invitro** test that determines chemical corrosivity and permits assignment of Packing Group classification for Class 8 corrosives. This test replaces the rabbit test of dermal corrosivity by providing a reliable means of mimicking this test.



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What is the technology used?

The core technology of the **Corrositex** test is based upon a proprietary biomembrane and chemical detection system which becomes colored when exposed to potentially corrosive substances.



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Why use CORROSITEX?

Rabbit testing takes several weeks to get results.
Additionally the test is expensive and cruel.

Simply put, the **Corrositex** test saves time and money over traditional rabbit testing.



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Time Savings:

Corrositex testing will provide a U.N. Packing Group determination as quickly as 3 minutes and no longer than 4 hours. Non-corrosive results are determined in either 1 hour, or 4 hours.



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Cost Savings:

In a recent evaluation, one customer saved up to \$50,000 in annual shipping costs, for a single compound, when using the **Corrositex** test to define its Packing Group instead of relying on pH.



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Additional Savings:

In addition to a reduction in shipping costs, savings are also found in the areas of workplace safety and MSDS development.



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How does the test work?



The **Corrositex** testing system consists of a glass vial filled with a chemical detection fluid, then capped by a proprietary bio-barrier membrane; the model is designed to mimic the effect of corrosives on living skin.



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Color Change:



The test sample is spread evenly on the bio-barrier membranes. If the sample is corrosive, it will destroy this membrane within specified time limits, and the fluid below will change color or texture.



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Color Change:



If the membrane resists destruction for the prescribed time, the test sample is not a corrosive.



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Record Time:



Users simply record the time it takes for the sample to break through the membrane.



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Assign U.N. Packaging Group:

Then, depending on their needs, they can assign the proper U.N. Packing Group classification for U.S. DOT or EPA compliance, or use the data as a ranking tool, or substantiate marketing claims as a non-corrosive.



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Is CORROSITEX widely accepted?

Yes. The **Corrositex** test has steadily gained approval since its introduction. Following is a list of agencies that accept **Corrositex**. This list continues to grow as regulatory bodies look for more accurate, cost-effective and humane testing methods.



CORROSITEX

Regulatory Acceptance:

Department of Transportation-DOT-E 10904

Original exemption granted April 28, 1993

Renewals granted:

March 22, 1995

November 30, 1997

January 12, 1999

December 12, 2000

September 20, 2002



CORROSITEX

Regulatory Acceptance:

Consumer Product Safety Commission (CPSC)

Formal Acceptance, NIEHS press release dated
3/21/00

European Centre for the Validation of Alternative Methods (ECVAM)

12/2002



CORROSITEX

Regulatory Acceptance:

EPA Federal Register / Vol. 60, No. 142

Dermal Corrosion

Method 1120 June 13, 1997, Formal

Acceptance, NIEHS press release dated 3/21/00

Food & Drug Administration (FDA)

Formal Acceptance, NIEHS press release dated
3/21/00



CORROSITEX

Regulatory Acceptance:

**International Air Transportation Association
(IATA)**

Letter of acceptance dated December 17, 1993

**National Institute of Environmental Health
Sciences (NIEHS)**

Endorsement dated 6/22/99



CORROSITEX

Regulatory Acceptance:

Occupational Safety and Health Administration (OSHA)

Letter of Interpretation dated March 3, 1994

Formal Acceptance, NIEHS press release dated
3/21/00



CORROSITEX

Regulatory Acceptance:

Transport Canada - Permit For Equivalent Level of Safety SU 4483

Original approval 8/14/96

Additional renewal 9/18/98

Additional renewal 1/15/01

Full Draize Replacement Acceptance 3/5/02



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IN VITRO
INTERNATIONAL

16632 Millikan Ave
Irvine, CA 92606

1-800-2-INVITRO
(1-800-246-8487)

714-851-0563 Fax

www.invitrointl.com



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What is Corrositex?

Corrositex is an **invitro** test that determines chemical corrosivity and permits assignment of Packing Group classification for Class 8 corrosives. This test replaces the rabbit test of dermal corrosivity by providing a reliable means of mimicking this test. The proprietary core technology of the **Corrositex** test is based upon a biomembrane and chemical detection system, which becomes colored when exposed to potentially corrosive substances.

Why Use Corrositex?

Because it will save you time and money.

- Time Savings: Unlike animal testing that can take 2 to 4 weeks, **Corrositex** testing can provide a Packing Group determination in as little as 3 minutes and no longer than 4 hours.
- Cost Savings: In a recent evaluation, one customer saved up to \$50,000 annually, in shipping costs, for a single compound when using the **Corrositex** test to define the Packing Group instead of relying on pH. In addition to the reduction in shipping charges, additional cost savings are found in the areas of workplace safety and MSDS development.

Regulatory Acceptance Following is a list of agencies that accept **Corrositex**. This list continues to grow as regulatory bodies look for more accurate, cost-effective and humane testing methods. **Copies provided upon request.**

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How the Test Works

The **Corrositex** testing system consists of a glass vial filled with a chemical detection fluid capped by a proprietary bio-barrier membrane, which is designed to mimic the effect of corrosives on living skin.

As soon as the corrosive sample destroys this bio-barrier, the fluid below changes color or texture. Users simply record the time it takes for the sample to break through the membrane. Then, depending on their needs, they can assign the proper U.N. Packing Group classification for U.S. DOT or EPA compliance, or use the data as a ranking tool or to substantiate marketing claims.



info@cosmeting.it
