

INSTRUCTIONS FOR USE

SKC Full Disclosure Kit

Wipe test for lead on skin and surfaces: preparing the Developing Solution, taking and reading a wipe sample, sending wipes for laboratory analysis, and handling, storing and disposing of the kit's materials.

AMTC-IN-0014

About this document

The SKC Full Disclosure® Kit shows on the spot whether lead is present on skin — above all on the hands — or on a surface. You wipe the skin or the surface, spray two solutions onto the wipe, and a pink or red colour appears where lead is present: a sign that hands need washing again or a surface needs further cleaning. The test was developed and patented by the US Centers for Disease Control and Prevention (CDC) and the National Institute for Occupational Safety and Health (NIOSH), and the wipes are specified in NIOSH Method 9105. A wipe can also be sent to a laboratory to measure how much lead it holds.

Read Safety (p. 5) before you open the kit, and check in What the test detects (p. 8) that the test suits your lead compounds. Before use (p. 9) and Procedure (p. 10) then take you through the test itself; After use and sample handling (p. 13) explains how to send wipes for a quantitative result.

These instructions apply to the Full Disclosure Kit, Cat. No. 550-001, and to the Full Disclosure Kit for Laboratory Analysis, Cat. No. 550-002, which adds sample collection bottles, labels and disposable templates.

Keep these instructions for the lifetime of the product. The current revision is on the product page at analyt-mtc.com.

NOTICE

Limited shelf life. Both kits have an expiry date, printed on the packaging. An expired kit can give an invalid result. Check the date before you use the kit.

How these instructions mark information

⚠ CAUTION

A hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Practices not related to personal injury — damage to the product, the process or the sample.

Note

Information that helps understanding; never a hazard.

Document information

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Applies to	Full Disclosure Kit, Cat. No. 550-001, and Full Disclosure Kit for Laboratory Analysis, Cat. No. 550-002
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Manufacturer	SKC Inc.

Revision history

Rev.	Date	Change
2	October 2026	Quality programme: new document type, number and identity pages.
1	October 2026	First issue.

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CHAPTER 1

Safety

Read the safety messages in this chapter before you open the kit. The kit contains a reagent powder and a mild acid. Handle them with the precautions below. The gloves that protect you from the chemicals also keep lead from your own hands off the wipes.

Intended use

The kit shows lead on skin and on surfaces: elemental lead and lead compounds that dissolve easily. It is not suitable for lead in paint or paint chips, on painted surfaces, or embedded in a material such as plastic (see What the test detects (p. 8)).

Before you start

NOTICE

Leaving out a step of a procedure can give a false result. Follow every step of the procedures in these instructions, in the order given. Check the expiry date on the packaging, and do not use a kit or a replacement part past that date.

NOTICE

Limited shelf life. Both kits have an expiry date, printed on the packaging. An expired kit can give an invalid result. Check the date before you use the kit.

Gloves and contamination

Wear the nitrile gloves from the kit whenever you prepare the Developing Solution and whenever you handle a wipe, before and after sampling. They protect your skin from the reagent and the wipe from lead on your fingers.

NOTICE

Gloves worn for one sample can carry lead to the next and give a false result. Put on a new pair of clean gloves for every wipe sample.

The chemicals

⚠ CAUTION

Disclosing Powder #1 and Developing Solution #3 can harm your health through contact with the eyes or skin, by inhalation or by swallowing. Wear chemical-resistant gloves — the nitrile gloves in the kit. Keep the powder and the solution away from your eyes, skin and clothing. Do not breathe in the powder and do not swallow either. Avoid prolonged or repeated exposure, and wash thoroughly after handling. Keep the Developing Solution isolated from food — in the field, in a cooler, away from food.

⚠ CAUTION

Extraction Solution #2 is a 5 % acetic acid solution. It is non-toxic, but it can irritate the eyes and mucous membranes. Avoid contact with the eyes and mucous membranes, and do not breathe in the spray for long periods.

Safety Data Sheets for the Disclosing Powder and the Extraction Solution give further details.

CHAPTER 2

Product and supplied items

What is in the kit

Item	What it is for
Wipes, individually packed, conforming to ASTM E1792	Collecting lead from the skin or the surface
Extraction Solution #2 in a spray bottle (yellow label)	5 % acetic acid in water. Dissolves the lead on the wipe.
Two spray bottles of deionized water, labelled "Developing Solution #3" (orange label)	Mixed with the powder, they become the Developing Solution. The second bottle is for a second batch.
Two vials of Disclosing Powder #1	Potassium rhodizonate compound, the colour reagent. One vial per batch of Developing Solution.
Pre-cut sheets of waxed paper	A clean base for the wipe while you spray it
Disposable nitrile gloves, in pairs	Protection, and keeping the wipes clean
Full Disclosure Kit for Laboratory Analysis (550-002) only: sample collection bottles, labels and disposable templates for the wipes you send to a laboratory	



Figure 2-1. From left: Extraction Solution #2 (yellow label), deionized water for Developing Solution #3 (orange label), nitrile gloves. The wipes are packed individually.



Figure 2-2. The Full Disclosure Kit.

How the test works

The wipe picks up lead from the skin or surface. Sprayed onto the wipe, the Extraction Solution dissolves the lead; the Developing Solution, sprayed onto the same spot, reacts with the dissolved lead. Within seconds a pink or red colour shows where lead is present above the test's lower limit of visual identification, 18 µg of lead. A yellow to orange colour means that any lead on the wipe is below that limit. Reading the result (p. 11) gives the details.

Typical uses are checking hands or other skin, work surfaces, and objects such as safety glasses, phones and shoes. A pink or red colour means that hands need washing again or the surface needs further cleaning. A wipe can afterwards go to a laboratory for a quantitative result.

What the test detects

Full Disclosure is designed for elemental lead and lead compounds that dissolve easily. The Extraction Solution does not dissolve every lead compound, so the test does not see them all.

Suitable for	Not designed or intended for
• elemental lead • lead nitrate • lead sulfate • lead acetate • lead oxides	• lead chromates • alkyl lead, such as tetraethyllead (TEL) or tetramethyllead (TML) • other lead compounds that do not dissolve easily

NOTICE

Full Disclosure is not suitable for lead in paint or paint chips, on painted surfaces, or embedded in a material such as plastic. A wipe without colour then does not prove that lead is absent. Do not use Full Disclosure to test for lead in these materials.

Some other metals can also colour the wipe; see Interferences (p. 10).

CHAPTER 3

Before use

Check the expiry date on the packaging before you start. How to keep the powder and the solutions is in Storing and disposing of the materials (p. 13).

Preparing the Developing Solution

Start in good time: the deionized water must be chilled before you mix it. Wear the kit's nitrile gloves while you prepare the solution (see Gloves and contamination (p. 5)).

> **Note**
> Do not let the water freeze.

1. Chill one spray bottle of deionized water — labelled "Developing Solution #3" — in an ice bath or a refrigerator to about 2 °C.
2. Put on gloves.
3. Tap **one** vial of Disclosing Powder #1 to loosen any powder stuck to the walls.
4. Pour the **entire** contents of the vial into the bottle of chilled water.
5. Cap the bottle and shake it until the powder is completely mixed in. The solution turns orange.



Figure 3-1. Left: pour one vial of Disclosing Powder #1 into the bottle. Right: cap and shake well.

How long the solution lasts

Mixed Developing Solution stays active for several hours at room temperature and for 10 days in a refrigerator. Keep it at about 35 °F (2 °C) whenever you can — in the field, in a cooler away from food — and use it as soon as possible.

NOTICE

Developing Solution that has lost its activity turns from orange to pale yellow. A test with it gives a false result. Do not test with it: discard it (see Storing and disposing of the materials (p. 13)) and mix a fresh batch.

For the second batch, the kit holds a second bottle of deionized water and a second vial of powder:

1. Discard the spent solution. Rinse the spray nozzle and keep it.
2. Fit the kept nozzle to the second bottle of deionized water, labelled "Developing Solution #3".
3. Mix the second vial of Disclosing Powder into it as described above, starting with chilling the water.

CHAPTER 4

Procedure

A test has three stages: mix the Developing Solution once for a series of tests, take the wipe sample, and develop and read the wipe straight away. Wear the kit's nitrile gloves throughout (see Gloves and contamination (p. 5)).

Interferences

Silver, cadmium, barium, mercury and titanium can also make the wipe change colour, but only at higher concentrations than lead — the test is less sensitive to them. Silver, titanium and mercury give a red hue, from reddish purple to hot pink, that differs from the colour of lead. Tin, at high concentrations, shows as an opaque white.

NOTICE

These elements can produce a false colour or hide lead. If you suspect that any of them is present, first determine whether it is there, and how much, with another test method. Only then test for lead with Full Disclosure.

Taking the sample

Use only one side of the wipe for the whole sample. The same side is later sprayed and read.

On skin

1. Open the wipe packet.
2. Unfold the wipe.
3. Wipe both hands, or the chosen area of skin, for **30 seconds** with one side of the wipe, pressing as firmly as when you wash your hands.

On surfaces

> **NOTICE**
>
> Gloves worn for one wipe sample can carry lead to the next and give a false result. Change to a new pair of clean gloves before each further wipe sample.

1. With gloved hands, unfold the wipe.
2. With one side of the wipe, wipe the chosen area thoroughly in repeated horizontal strokes.
3. Wipe the same area again with the same side of the wipe, this time at right angles to the first strokes.

Irregular objects, such as shoes, safety glasses and their frames, or phones, are wiped thoroughly in the same way, with one side of the wipe. If the wipe is going to a laboratory, fix the size of the area with a template (see After use and sample handling (p. 13)).



Figure 4-1. Left: wipe the hands or skin for 30 seconds. Centre: wipe a surface horizontally, then at right angles. Right: wipe objects such as safety glasses, phones or shoes. One side of the wipe only.

Reading the result

1. Spread the wipe on a sheet of waxed paper, with the sampled (soiled) side facing up.
2. Prime each spray bottle: aim the nozzle into a waste bin and press it until it gives a fine spray.
3. Spray the most soiled part of the wipe with Extraction Solution #2: press the nozzle **at least 3 times**.
4. Spray the same part of the wipe with Developing Solution #3: press the nozzle **at least 2 times**.

> **NOTICE**
>
> The colour appears within seconds and begins to fade quickly as the wipe dries. A colour read late can be missed. Read the colour immediately after spraying.

5. Read the colour **at once**, using the table below.



Figure 4-2. Wipe on waxed paper, sampled side up. Left: laying the wipe on the paper. Centre: Extraction Solution #2, at least 3 sprays. Right: Developing Solution #3 on the same spot, at least 2 sprays.

What the colour means

	Colour of the sprayed area	Result
	Pink or red	Lead is present **above** the lower limit of visual identification. Wash the hands again, or clean the surface further, and test again.
	Yellow, orange or deep orange	Any lead present is **below** the lower limit of visual identification.

Lower limit of visual identification: **18 µg of lead** on the wipe. The colour swatches are a guide only; printed colours vary.

CHAPTER 5

After use and sample handling

The colour test tells you whether lead is present. To know how much, send the wipe to a laboratory. The Full Disclosure Kit for Laboratory Analysis (550-002) contains the sample collection bottles, labels and templates you need.

Sending wipes to the laboratory

1. Prepare the Developing Solution and take the sample as described in Before use (p. 9) and Procedure (p. 10). On a flat surface, lay a disposable template on it and wipe only the area inside, so that the sampled area has a known, fixed size. You may develop and read the wipe before you send it.
2. Fold the wipe with the sampled (soiled) side facing inwards and put it in a sample collection bottle. Mark the bottle with one of the kit's labels.
3. For each lot of samples, add **one blank**: an unused wipe, put into a clean container so that it cannot be contaminated, and labelled like the samples.
4. Pack the samples, the blank and all the sample information, and send them to an accredited laboratory.



Figure 5-1. Left: a template fixes the sample area. Right: the folded wipe goes into a sample collection bottle, which is then labelled.

Analysis

Quantitative analysis	Atomic absorption spectroscopy or electroanalysis according to NIOSH Method 7082, 7105 or 7701, modified for wipes
Wipe specification	NIOSH Method 9105; wipes conform to ASTM E1792
Lower limit of visual identification (qualitative test)	18 µg of lead

Send the wipes to an accredited laboratory that analyses lead on wipes. The performance data of the test are summarised in the Full Disclosure Kit performance report (document AMTC-TN-0002); ask Analyt-MTC for it.

Storing and disposing of the materials

Dispose of anything that cannot be kept for recovery or recycling at an approved waste disposal facility, following national and local environmental regulations — except where the table allows otherwise.

Material	Storing	Disposing
Disclosing Powder #1 potassium rhodizonate compound, powder	Vial tightly closed, in a cool, dry place.	At an approved waste disposal facility.
Extraction Solution #2 5 % acetic acid in water	In its spray bottle, at room temperature.	Non-polluting: dilute with water and pour down a sink drain.
Developing Solution #3 deionized water mixed with Disclosing Powder #1	Cold — about 35 °F (2 °C) — whenever possible; in the field in a cooler, away from food. Use it as soon as possible: it stays active for several hours at room temperature and 10 days in a refrigerator. Discard it when it turns from orange to pale yellow (see How long the solution lasts (p. 9)).	As Disclosing Powder #1.
Wipes after testing	Do not keep them. Dispose of them, or seal them in sample collection bottles for the laboratory (see After use and sample handling (p. 13)). Handle them with nitrile gloves so that they are not contaminated.	Used wipes and unused material: following national and local environmental regulations.

CHAPTER 6

Ordering information

Order from Analyt-MTC with the order codes.

The kits have a limited shelf life; check the expiry date on delivery.

Kits

Description	Order code
Full Disclosure Kit (contents: see What is in the kit (p. 7))	550-001
Full Disclosure Kit for Laboratory Analysis: as 550-001, plus sample collection bottles, labels and disposable templates	550-002

Replacement parts

Description	Order code
Wipes, conforming to ASTM E1792, pack of 10	550-022
Disclosing Powder #1	550-020
Extraction Solution #2, in spray bottle	550-021
Deionized Water for Developing Solution #3, in spray bottle	550-023
Nitrile gloves, 11 pairs	550-024

CHAPTER 7

Service and contacts

Ordering and support

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Ordering and questions

Analyt-MTC supplies the Full Disclosure kits and their replacement parts. Order with the catalogue numbers in Ordering information (p. 15). Warranty and returns follow the terms of Analyt-MTC.

Analyt-MTC is your contact for everything concerning the Full Disclosure kits: questions about the test and its scope, orders and complaints. Warranty and returns follow the terms of Analyt-MTC. Analyt-MTC's contact details are in this chapter and on the back cover.

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