

Agentase CAD-Kit™ sensors detect nerve (G, V), blister (HD), and blood (AC) agents, acids, bases, oxidizers and aldehydes (formaldehyde, acetaldehyde) in the field. There are two modes of operation. Mode A: Individual sensors may be used directly on relatively clean surfaces to identify residual or low levels of hazards. Mode B: Because the direct use of sensors is incompatible with high concentrations of organics, acids, bases and discoloring environments, a Sampler is included within the kit. The Sampler is used to collect samples of an unknown nature and convert them to a form that is compatible with the sensors. The following pages describe the proper use of the kit in both scenarios.

Color Chart

Sensor	CLEAN	HAZARD	
Nerve Agent (G & V)	Yellow	Red	
Blister Agent (HD)	Pink	Yellow	
Blood Agent (AC)	Orange	Yellow	
Acid/Base	Yellow	acid (Purple)	base (Cyan)
Oxidizer	Yellow	Pink	
Aldehyde	Yellow	Purple	

After 5 minutes from sampling each sensor should display one of the two colors shown in the color chart.

If the sensor displays a color other than the listed responses, the test is invalid and the sensor is incompatible with the test conditions. No conclusions can be drawn regarding the presence of hazards in this case.

Do not read sensor color before the 5 minute development time, as some environments can temporarily and erroneously alter sensor color.

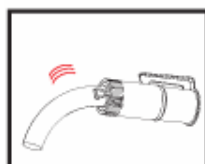
If color development is unclear after 5 minutes, re-pump the sponge and wait an additional 5 minutes before interpreting the results. If no clear interpretation can be drawn at this point, the test is invalid.

[Open for Instructions](#) →

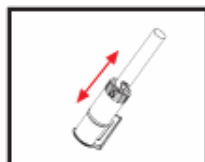
Mode A: Direct surface sampling with sensors:

1. Activate *

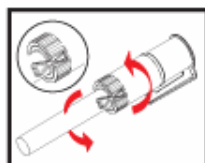
Do NOT remove sensor cap until Step 2. Sense



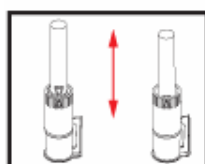
A) Break glass ampoule within sensor



B) Vigorously shake



C) Twist sensor to align arrows



D) Invert and pump repeatedly, compress sensor to wet sponge (you should feel a click)

2. Sense

Ensure that sponge is wet from Step 1

- Remove sensor cap
- Sample surface with sponge pad **Immediately following sensor activation**
- Replace cap
- Re-pump sensor to mix sample in sponge

3. Monitor Color Change

Read sponge color at 5 minutes
(See Color Chart or refer to Sensor Label)

Direct Sampling Limitations and Interference:

ICx Agentase sensors are designed to detect small amounts of target hazards on relatively clean surfaces. Large quantities of acids or bases, organic solvents, bleaches, or discoloring dyes can prevent the proper operation of the sensors and produce invalid tests. When these conditions are suspected, use the sampling device protocol described in the next section to minimize the potential for an invalid test.

*** Prior to activation ensure that the inner ampoule is not broken.
If the ampoule is broken DO NOT use the sensor.**

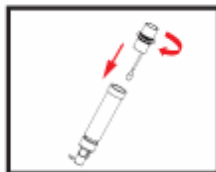
Mode B: Using the Sampler with sensors:

1. Prepare Sample

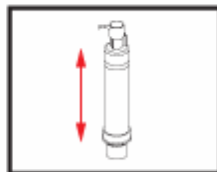
A) Collect sample with swab end



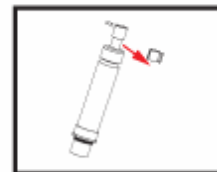
B) Unscrew swab end, invert, replace within unit



C) Shake sampler for 10 seconds to mix contents



D) Remove clip and pump until liquid is dispensed



2. Activate *

Activate sensor of interest using Direct surface sampling Step 1. Activate (A-D)

3. Sense - Ensure that sponge is wet from Activate step

- Remove sensor cap
- Dispense one full stroke from Sampler into each sensor cap
Immediately following sensor activation
- Replace cap
- Re-pump sensor to mix sample in sponge

4. Repeat - Repeat Steps 2 and 3 for remaining sensors of interest

5. Monitor color change(s) - Read sponge color at 5 minutes (see Color Chart or refer to Sensor Label)

Note: Use of the Sampler may prevent invalid tests associated with certain conditions; however, using the Sampler protocol may dilute the sample sufficiently to lower the hazard concentrations beyond those detectable with the sensors.

For instructional video and product updates please visit our website

<http://chemdetection.icxt.com>

Sensor Limitations: The user acknowledges the following:

- Expiration date is listed on the outside of the sensor package. NO CAD KIT SENSOR SHOULD BE USED AFTER THE EXPIRATION DATE or WHEN THE CENTER RING OF THE INDICATOR IS EQUAL TO OR DARKER THAN THE OUTER RING.
- Agentase CAD-Kit™** should be stored at room temperature and out of direct sunlight. Improper storage of the kit above 70° F (21° C) will shorten the shelf life of the sensors and affect their performance.
- Do not open individual sensor packaging prior to use. Doing so shortens the shelf life of the sensor.
- Sensors can only effectively detect hazards at levels above certain concentrations (See Product Information Sheet). Any negative result, therefore, cannot be interpreted to mean that there is absolutely none of the tested hazard in the sample. Proper precautions must be taken.
- Agentase CAD-Kit™** cannot be used to detect hazards not listed on the package. A NEGATIVE RESULT, THEREFORE, IS NOT AN INDICATION THAT THE TEST SAMPLE IS FREE FROM ALL HARMFUL OR TOXIC HAZARDS.
- All sensors can fail to detect hazards or provide false positive signals under a variety of circumstances, many of which are not readily verifiable. User, therefore, also acknowledges that use of additional sensing technologies to verify the absence or presence of target contamination and proper use of protective and safety equipment are necessary to mitigate any risk to individuals and property of exposure to the targeted hazards.

Questions? 1-800-391-4527

LIMITATION OF LIABILITY

Seller is not liable for any direct or indirect damages associated with the improper use of the CAD Kit sensors or Sampler, which includes but is not limited to: use after expiration date; use after storage at excessive temperatures; use for other than targeted hazards; improper activation; multiple test attempts; use after initial color development; failure to follow testing protocols; storage in unsealed packages; use of any sensor with a broken ampoule (prior to activation process) and others. UNDER NO CIRCUMSTANCES WHATSOEVER SHALL ICX AGENTASE OR ANY SELLER BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, LOST PROFIT OR CONSEQUENTIAL DAMAGES, REGARDLESS OF THE CAUSE. SELLER'S TOTAL LIABILITY WITH RESPECT TO THE GOODS, WHETHER ARISING FROM OR BASED UPON BREACH OF CONTRACT, BREACH OF WARRANTY, TORT (INCLUDING ICX AGENTASE'S OR SELLER'S NEGLIGENCE), STRICT LIABILITY, INDEMNITY, OR ANY OTHER CAUSE OR BASIS WHATSOEVER, IS EXPRESSLY LIMITED TO THE PURCHASE PRICE OF THE GOOD(S) TO WHICH THE CLAIM PERTAINS.