

# ALCO-Screen® 02 Saliva Alcohol Test Kit

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The ALCO-Screen® 02 Saliva Alcohol Test Kit is a rapid, highly sensitive method to detect the presence of alcohol in saliva and provide an approximation of relative blood alcohol concentration. Since it is well established that the concentration of alcohol in saliva is very close to that in the blood, saliva is the preferred specimen for alcohol testing, allowing for greater detection sensitivity than breath testing methods. ALCO-Screen® 02 Saliva Alcohol Test Kit is a simple, one-step, test requiring no instrumentation, calibration or special training to be used effectively. It is convenient enough to be used at any time, at any place.

#### BENEFITS:

- Results in just 4 minutes
- The relationship between the amount of saliva alcohol and blood is 1:1
- Test any time, any place
- Greatly reduces the time and cost associated with other testing methods
- Test from .02% or greater
- Completely packaged and disposable

#### Ordering Information:

Product Description	Catalog #
ALCO-Screen® 02 Saliva Alcohol Test Kit (288 tests)	CHEM-56288-288
ALCO-Screen® 02 Saliva Alcohol Test Kit (72 tests)	CHEM-56288-72
ALCO-Screen® 02 Saliva Alcohol Test Kit (24 tests)	CHEM-56288-24

#### Reimbursement Information:

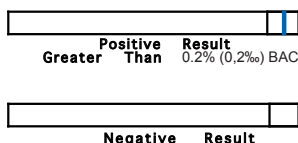
CPT Code #	National Limit Amount
N/A	N/A

All product information and prices are subject to change without notice at any time. Please call our office before ordering to verify current prices.

# ALCO-Screen® 02 Saliva Alcohol Test Instructions

## PROCEDURE

1. Abstain from placing anything in the subject's mouth for fifteen (15) minutes prior to beginning the test. This includes non-alcoholic drinks, tobacco products, coffee, breath mints, food, etc.
2. Open the foil package and remove the test strip. The preservative packet is not needed to perform the test and should be discarded. Observe the reactive pad on the end of the test strip. The pad should be a light cream color. A test strip with a reagent pad which has a colored line or is otherwise discolored must be discarded.
3. Saturate the reactive pad with saliva from a sputum cup or by applying saliva directly to the pad. Immediately start timer. After ten seconds, shake off excess saliva.
4. At four (4) minutes, observe the results on the reactive pad. Reading the results may be made easier by placing the test on a white background. The development of a distinct colored line across the reactive pad indicates the presence of alcohol greater than 0.02% (0,2‰) BAC. Results obtained after more than five (5) minutes may be erroneous.



**Note:** For questions regarding the validity of test results, refer the TROUBLE SHOOTING section.

## RESULTS

ALCO-SCREEN 02™ produces a distinct colored line across the reactive pad in the presence of saliva greater than 0.02% (0.02g/dL) BAC. A reagent pad that shows no distinct line should be interpreted as less than 0.02% (0,2‰) BAC.

## TROUBLE SHOOTING

1. Nothing should be placed into the mouth of the subject for at least 15 minutes prior to saliva collection and testing with ALCO-SCREEN 02™. This prevents any foreign substance from interfering with the test.
2. Results must be determined four (4) minutes after saturation of the reactive pad with saliva. Any result determination made after five (5) minutes of saturation of the reactive pad may be erroneous.
3. Testing for alcohol vapors in the air can be performed by using tap water as a sample, and performing the test procedure as specified. The development of a distinct colored line indicates that alcohol vapors are present. Therefore the ALTERNATE PROCEDURE stated below must be used for subject testing.
4. Maximum performance of the ALCO-SCREEN 02™ test is obtained if performed at room temperature, not to exceed 80°F (27°C). For performing the test at temperatures over 80°F (27°C), see instructions stated in STORAGE AND STABILITY section.

## ALTERNATE PROCEDURE

This procedure is to be employed if alcohol vapors are determined to be present, and/or alcohol vapors are suspected of interfering with the validity of the test results.

1. Abstain from placing anything in the subject's mouth for fifteen (15) minutes prior to beginning the test. This includes non-alcoholic drinks, tobacco products, coffee, breath mints, food, etc.
2. Open the foil package and remove **ALL** contents (**paying special attention to removing the preservative packet**). Observe the reactive pad on the end of the test strip. The pad should be a white or cream color. A test strip with a reagent pad which has a colored line or is otherwise discolored must be discarded.
3. Saturate the reactive pad with saliva from a sputum cup or by applying saliva directly to the pad. Immediately replace **ONLY** the ALCO-SCREEN 02™ test stick into the foil package, and fold the package closed. Start timer.
4. At four (4) minutes, remove the test stick from the package and observe the results on the reactive pad. Reading of results may be made easier by placing the test on a white background. The development of a distinct colored line across the reactive pad indicates the presence of alcohol greater than 0.02% (0,2‰) BAC. Results obtained after more than five (5) minutes may be erroneous.

## PERFORMANCE CHARACTERISTICS

In an independent study conducted by investigators at the US Department of Transportation Volpe National Transportation Systems Center, ALCO-SCREEN 02™ was found to be highly effective as an objective determinant for blood alcohol levels above or below the 0.02% (0,2‰) decision level.

The details and results of this study are summarized in the table below:

n	BAC	Challenge Condition	Results
20	0.000% (0,00‰)	Fluorescent light;; temp. 22°C	0 false positives
20	0.008% (0,08‰)	Fluorescent light;; temp. 22°C	0 false positives
20	0.032% (0,32‰)	Fluorescent light;; temp. 22°C	0 false negatives
20	0.000% (0,00‰)	Fluorescent light;; temp. 10°C	0 false positives
20	0.008% (0,08‰)	Fluorescent light;; temp. 10°C	0 false positives
20	0.032% (0,32‰)	Fluorescent light;; temp. 10°C	0 false negatives
20	0.000% (0,00‰)	Fluorescent light;; temp. 40°C	0 false positives
20	0.008% (0,08‰)	Fluorescent light;; temp. 40°C	0 false positives
20	0.032% (0,32‰)	Fluorescent light;; temp. 40°C	0 false negatives
20	0.000% (0,00‰)	Incandescent light; 22°C	0 false positives
20	0.008% (0,08‰)	Incandescent light; 22°C	0 false positives
20	0.032% (0,32‰)	Incandescent light; 22°C	0 false negatives
20	0.000% (0,00‰)	Mercury vapor light; 22°C	0 false positives
20	0.008% (0,08‰)	Mercury vapor light; 22°C	0 false positives
20	0.032% (0,32‰)	Mercury vapor light; 22°C	0 false negatives
20	0.000% (0,00‰)	Sodium vapor light; 22°C	0 false positives
20	0.008% (0,08‰)	Sodium vapor light; 22°C	0 false positives
20	0.032% (0,32‰)	Sodium vapor light; 22°C	0 false negatives
20	0.000% (0,00‰)	Daylight; 22°C	0 false positives
20	0.008% (0,08‰)	Daylight; 22°C	0 false positives
20	0.032% (0,32‰)	Daylight; 22°C	0 false negatives

## STORAGE AND STABILITY

ALCO-SCREEN 02™ should be stored at room temperature, not to exceed 80°F (27°C). Under this condition, ALCO-SCREEN 02™ will perform according to specification until the expiration date stamped on the package. If storage temperature exceeds 80°F (27°C), degradation of the product and performance may occur.

If the product is refrigerated, the ALCO-SCREEN 02™ test must be brought to room temperature prior to opening the package.

**Maximum performance is assured if the ALCO-SCREEN 02™ test is performed at room temperature, not to exceed 80°F (27°C).** The ALCO-SCREEN 02™ can be used in environments above 80°F (27°C) if performed within ten minutes after removal from the specified storage temperature 80°F (27°C). Failure to perform the test within ten minutes upon exposure to temperatures above 80°F (27°C) could cause degradation of product performance.

## CONTROLS

The color reaction with alcohol in saliva is somewhat slower and less intense than with alcohol in aqueous solutions.

The ALCO-SCREEN 02™ may be qualitatively verified by using a test solution prepared by adding 10 drops of 80 proof distilled spirits to 8 oz. (1 cup) of water. This solution should provide a positive result (distinct colored line) across the reactive pad of the test.

Commercially available controls that contain preservatives cannot be used with the ALCO-SCREEN 02™.