

ALCO-Screen® Saliva Alcohol Test Kit

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ALCO-Screen® 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® is a very simple, one-step, 2 minute test requiring no instrumentation, calibration or special training to be used effectively, and is convenient enough to be used any time, any place.

BENEFITS:

- Results in just 2 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% - .30% BAC
- Completely disposable

Ordering Information:

Product Description	Catalog #
ALCO-Screen® Saliva Alcohol Test Kit (288 tests)	CHEM-55001-288
ALCO-Screen® Saliva Alcohol Test Kit (72 tests)	CHEM-55001-72
ALCO-Screen® Saliva Alcohol Test Kit (24 tests)	CHEM-55001-24

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[®] Saliva Alcohol Test Instructions

PROCEDURE

1. Abstain from placing anything in the 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. 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 is dark tan in color or otherwise discolored must be discarded.
3. Saturate the reactive pad with saliva from mouth or sputum cup. Immediately start timer.
4. At two (2) minutes observe the color change (if any) in the reactive pad. A color change of green or blue indicates the presence of alcohol and a positive result. Results obtained after more than 2 minutes and 30 seconds may be erroneous.
5. Estimate the approximate blood alcohol concentration by comparing the color of the reagent pad with the color chart appearing on the test package.

RESULTS

ALCO-SCREEN[™] produces a color change in the presence of saliva alcohol ranging from a light green-gray color at 0.02% (0,20‰) blood alcohol concentration to a dark blue-gray color near 0.30% (3,0‰) blood alcohol concentration. Color blocks are provided within this range to allow an approximation of blood alcohol concentration to be made. ALCO-SCREEN[™] may produce colors that appear to be between adjacent color blocks.

ALCO-SCREEN[™] is very sensitive to the presence of alcohol. A green color that is lighter than the 0.02% color block should be interpreted as being positive to the presence of alcohol in saliva but less than 0.02% (0,20‰) blood alcohol.

A result where the reagent pad shows no color change (remains white or cream colored) should be interpreted as a negative result (no alcohol present).

A result where the outer edges of the reagent pad produces a slight color but the majority of the pad remains colorless should be repeated to ensure complete saturation of the reagent pad with saliva. If the second result is the same, the results should be interpreted as being negative (no alcohol present).

PERFORMANCE CHARACTERISTICS

ALCO-SCREEN[™] is highly effective as an objective determinant for alcohol ingestion. In a clinical study involving 230 subjects ALCO-SCREEN[™] demonstrated an accuracy of greater than 95% in correctly identifying the presence or absence of measurable alcohol in blood. The following table summarizes the results of this study:

n	230
Sensitivity	0.983
Specificity	0.843
Positive Predictive Value	0.956
Negative Predictive Value	0.935
Accuracy	0.952

ALCO-SCREEN[™] has been shown to be highly sensitive, having a lower detection limit of less than 0.009% (0,09‰) BAC.

CONTROLS

The integrity of ALCO-SCREEN[™] may be qualitatively verified using a test solution prepared by adding 4 drops of 80 proof distilled spirits to 8oz. (1 glass) of water. This solution should provide a color reaction equal to or higher (darker) than the 0.04% (0,4‰) color block.

The color reaction with alcohol in saliva is somewhat slower and less intense than with alcohol in aqueous solutions. For additional information regarding controls, please contact Chematics, Inc. Other commercially available controls should not be used with ALCO-SCREEN[™].

TECHNICAL ASSISTANCE

For technical assistance or further information, contact Chematics, Inc. Technical Assistance at 1-800-348-5174.

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