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Maximizing Accuracy in Oral Fluid Testing

The integration of oral fluid drug testing in clinical and non-clinical settings necessitates adherence to precise methodologies to ensure the validity and reliability of test results. This article synthesizes key procedures and common pitfalls with practical advice to optimize test outcomes.

Sample Collection Integrity

A pivotal aspect of oral fluid testing is the accurate collection of saliva samples. This document emphasizes the importance of following recommended procedures closely, including using the saliva collection sponge appropriately to gather sufficient sample volume. It advises against biting down on the sponge, which may compromise the device's integrity and necessitate a re-collection.

To further ensure sample integrity, it is advised to swab in a circular motion from cheek to cheek. This technique ensures a thorough sample collection from various areas within the oral cavity.

Pre-Collection Considerations

Prior to sample collection, individuals should be instructed not to eat, drink, or place any substance in their mouth for at least 10 minutes. This precaution is vital to prevent potential contamination of the saliva sample.

Collection Process

During collection, the donor should avoid swallowing saliva. This helps maintain an adequate volume of oral fluid for testing and ensures that the sample is not diluted or compromised.



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Common Sources of Invalid Test Results

Indicator Misinterpretation: The transition of the indicator to red signifies adequate saliva collection. Post-indication actions like chewing on the collection pad can extrude absorbed saliva, undermining the sample volume required for strip wicking.

- **Operational Handling:** Incorrect handling of the test cube, such as tilting or swaying during the collector's insertion, can lead to invalid results. It is crucial to maintain the product's stability throughout the testing process.
- **Packaging Integrity:** Damage to the test kit during transportation or handling, leading to moisture intrusion, can compromise the test's efficacy.
- **Sample Diffusion Obstruction:** The interaction between transparent glue and the sticker, forming an airtight barrier, can prevent saliva from reaching the test strip adequately, resulting in an invalid outcome.

Proactive Measures for Reliable Testing

1. **Adherence to Instructions:** Complying with the instructions for use (IFU) is essential. Avoid any actions that might alter the sample integrity, such as sucking, blowing, biting, or bending the collection pad.
2. **Stable Handling:** Ensure the collector is placed horizontally within the cube to prevent any movement that could affect the sample dispersion.
3. **Kit Inspection:** Prior to use, inspect the test kit for any signs of damage. A compromised pouch suggests the need for disposal and re-testing with an intact kit. Prompt testing after opening the pouch is advised to prevent external factors from affecting the test results.

Incorporating these guidelines and avoiding identified pitfalls can significantly enhance the accuracy and reliability of oral fluid drug testing outcomes. By prioritizing meticulous sample collection and handling practices, users can mitigate the risk of invalid test results, contributing to the overall effectiveness of drug testing protocols.