# DRG Cotinine (Saliva) ELISA (EIA-3243)

**REVISED 2 NOV. 2005 (VERS. 1.1)** **RUO IN THE USA**

**THIS KIT IS INTENDED FOR RESEARCH USE ONLY.**

**NOT FOR USE IN DIAGNOSTIC PROCEDURES.**

## 1 INTENDED USE

The Cotinine Saliva ELISA is for determination of Cotinine in Saliva.

Other kits are available for urine, plasma and serum.

**This kit should not be used where saliva was collected by the SDS Omni-SAL® collector.**

® Omni-SAL is a trademark of SDS Saliva Diagnostic Systems

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## 2 REAGENTS

1. **Anti-Cotinine Coated Plate** - (1 plate)
   Anti-Cotinine antibody immobilized on a polystyrene plate.
   12 x 8 wells in break-a-part format.
   Store at 2-8°C.
2. **Cotinine Enzyme Conjugate** -- (15 mL)
   Buffered protein reagent with stabilizers. Ready to use.
   Store at 2-8°C.
3. **Wash Buffer Concentrate (30 x)** - (50 mL)
   Requires dilution with distilled water before use.
   Dilute contents of the vial to 1500 mL with distilled water.
4. **Substrate Solution** - (20 mL)
   One bottle containing 3,3',5,5'- tetramethylbenzidine.
5. **Stop Solution** - (20 mL)
   1 Molar Sulphuric acid. Treat as corrosive.
6. **Negative Calibrator** -- (1 mL)
   Saliva matrix negative for Cotinine
7. **Positive Calibrators** – (1 mL each level)
   - Saliva matrix containing 5ng/mL Cotinine
   - Saliva matrix containing 10ng/mL Cotinine
   - Saliva matrix containing 50ng/mL Cotinine

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## 3 WARNING AND PRECAUTIONS

1. The handling of food or drink near the kit reagents is not recommended.
2. Proper handling of all reagents is strongly advised. It is suggested that disposable materials are used to avoid contamination of Substrate Solution.
   Discard Substrate Solution if obvious blue colour develops.
3. Do NOT mouth pipette reagents. Handle all specimens and reagents as if potentially infectious.
4. Keep all containers closed when not in use to avoid microbial contamination.
5. Do NOT use reagents after the expiration date.
6. Do NOT mix reagents from different kits or manufacturers.
7. Do NOT freeze reagents.
8. It is suggested that all reagents be kept out of direct sunlight wherever possible.
9. Stop Solution is corrosive; handle with care.
10. Sample addition should take no longer than 30 minutes.

## 4 STORAGE/STABILITY

Store all reagents at 2-8°C.

The stability of the Cotinine ELISA is a minimum of 6 months from the date of manufacture when stored at 2-8°C. The expiration date appears on all components.

## 5 ASSAY PROCEDURE

**Prepare wash buffer by 1:30 dilution with distilled water**

**Note:** Allow all reagents to come to room temperature (20-27°C) before use. At the discretion of the operator, all samples, calibrators, and controls may be tested in duplicate.

1. Add 10 µL of sample, calibrator, or control to each well. (See note 10 above)
2. Add 100 µL of Cotinine Enzyme into each well.
3. Incubate for 30 minutes at room temperature.
4. Wash the plate four times with 350 µL of Wash Buffer.
5. Add 100 µL of Substrate Solution to each well and incubate for 30 minutes at room temperature.
6. Add 100 µL of Stop Solution to each well.
7. Measure the absorbance at 450 nm within 30 minutes.