



## Oral Fluid Homogeneous Enzyme Immunoassay

Catalog # 324-0100 (100 mL)

Catalog # 324-0500 (500 mL)

Immunoanalysis has expanded its already broad line of homogeneous enzyme immunoassays for oral fluid drug testing. When paired with **Quantisal™** our patented collection device, our immunoassays deliver the highest level of accuracy, precision, sensitivity and reliability. Discover the advantages:

- High throughput: reduces costs and turnaround time
- Ready to use reagents: increased sensitivity, stability and robustness
- Screen and confirm with your existing equipment: no capital expenditure

### Full Line of Oral Fluid Homogeneous Enzyme Immunoassays for use with **Quantisal™**:

Drug class	Cut-off (ng/mL)
Amphetamine/MDA	50
Methamphetamine/MDMA	50
Cocaine	20
Cannabinoids	8
Methadone	50
Opiates	40
Methadone	50
PCP	10
Alcohol	Quantitative

**Quantisal™**

- Volume adequacy indicator
- No artificial stimulants
- Excellent drug recovery efficiency

### Drug recovery from the **Quantisal™** collection device

Drug class	Concentration tested (ng/mL)	Percentage recovery (%)	Reference
THC	4	89.2	1
THC	4	91.4	2
Amphetamine; Methamphetamine	50; 50	94.2; 103.8	2
Cocaine; Benzoylcegonine	20; 20	91.2; 86.9	2
Codeine; Morphine; 6-AM	40; 40; 4	95.6; 92.6; 92.2	2
Methadone	50	99.7	2
Phencyclidine	10	81.7	3
MDMA, MDA, MDEA	50	85.4 / 88.6 / 89.1	4

**IMMUNALYSIS**



## Oral Fluid



Urine



Blood



Meconium



Tissue Extract



Vitreous

Precision (n=80)			
THC Concentration (ng/mL)	Measured Concentration	Standard Deviation	Coefficient of Variation (%)
4	3.8	0.4	10.5
5	8.4	0.85	10.1
16	16.2	1.3	8.0

Accuracy (n=77)      Cut off:8 ng/mL		
Sensitivity: 89.5%	Specificity: 92.3%	Accuracy: 90.9%

		GC-MS	
		Positive	Negative
HEIA	Positive	34	4
	Negative	3	36

Cross Reactivity (ng/mL)			
Analyte	Concentration (ng/mL)	$\Delta$ 9-THC Equivalents	% Cross Reactivity
$\Delta$ 9-THC	8	8	100
11-hydroxy- $\Delta$ 9-THC	10	8	80
11-nor-9-carboxy- $\Delta$ 9-THC	5.3	8	150
Cannabinol	32	8	25
Cannabidiol	>1000	<4	<1

#### References

1. Moore C, Rana S, Coulter C. Simultaneous identification of 2-carboxy-tetrahydrocannabinol, tetrahydrocannabinol, cannabinol and cannabidiol in oral fluid. J Chromatogr Biomed Applns 2007; 852: 459-64
2. Quintela O, Crouch D, Andrenyak D. Recovery of drugs of abuse from the Immunalysis Quantisal oral fluid collection device. J Anal Toxicol 2006; 30: 614-6
3. Coulter C, Crompton K, Moore C. Detection of phencyclidine in human oral fluid using solid phase extraction and liquid chromatography with tandem mass spectrometric detection. J Chromatogr Biomed Applns 2008; 873: 123-128
4. Moore C, Coulter C, Crompton K. Achieving proposed Federal concentrations using reduced specimen volume for the extraction of amphetamines from oral fluid. J Anal Toxicol 2007; 31(8): 442-446

