SPICE I

SPICE I (JWH-018) ENZYME IMMUNOASSAY *Forensic Use Only*

Liquid Homogeneous Enzyme Immunoassay

Lin-Zhi International's LZI SPICE I (JWH-018) Enzyme Immunoassay is intended for the qualitative and semi-quantitative determination of JWH-018 synthetic cannabinoids in human urine at a cutoff value of 20 ng/mL. The reagent kit, calibrators, and controls are ready-to-use and have 18 months of real-time stability data. The results shown below were performed on the Beckman Coulter AU400e.

Precision

Qualitative - Results were measured in ΔOD, mAU

	Within-Run (N=22)			Total (N=88)		
	Mean	SD	%CV	Mean	SD	%CV
0 ng/mL	-7.3	2.3	N/A	-7.3	3.1	N/A
5 ng/mL	10.1	2.5	26.8%	10.1	3.2	32.2%
10 ng/mL	28.9	2.5	8.7%	28.9	2.8	9.7%
15 ng/mL	50.1	2.6	5.2%	50.1	3.4	6.8%
20 ng/mL	72.7	3.4	4.6%	72.7	3.9	5.4%
25 ng/mL	100.3	3.3	3.2%	100.3	3.9	3.9%
30 ng/mL	126.2	4.3	3.5%	126.1	4.9	3.9%
35 ng/mL	157.5	3.0	1.9%	157.6	4.2	2.7%
40 ng/mL	185.0	3.9	2.1%	185.0	5.5	3.0%

Semi-Quantitative - Results were measured in ng/mL

	Within-Run (N=22)			Total (N=88)		
	Mean	SD	%CV	Mean	SD	%CV
0 ng/mL	0.1	0.6	N/A	0.1	0.9	N/A
5 ng/mL	4.4	0.7	16.9%	4.4	0.9	20.5%
10 ng/mL	10.0	0.7	6.5%	10.0	0.9	8.5%
15 ng/mL	14.7	0.7	4.6%	14.7	0.8	5.4%
20 ng/mL	19.9	0.6	2.8%	19.9	0.6	3.2%
25 ng/mL	24.7	0.7	2.9%	24.7	0.8	3.2%
30 ng/mL	29.2	0.6	2.1%	29.2	0.7	2.5%
35 ng/mL	34.8	0.9	2.5%	34.8	0.8	2.4%
40 ng/mL	41.4	1.0	2.3%	41.3	1.1	2.6%

Ordering Information

Ref #	Product	Size
0400	SPICE I (JWH-type) EIA, Small Kit	(R_1/R_2) 100/37.5 mL
0401	SPICE I (JWH-type) EIA, Large Kit	(R_1/R_2) 1000/375 mL
0002c	THC Negative Calibrator	5 mL
0402	SPICE I (JWH-type) 10 ng/mL Low Calibrator	5 mL
0403	SPICE I (JWH-type) 20 ng/mL Cutoff Calibrator	5 mL
0404	SPICE I (JWH-type) 35 ng/mL Inter. Calibrator	5 mL
0405	SPICE I (JWH-type) 50 ng/mL High Calibrator	5 mL
0407	SPICE I (JWH-type) 15 ng/mL Level 1 Control	5 mL
0408	SPICE I (JWH-type) 25 ng/mL Level 2 Control	5 mL

Cross Reactivity

Structurally Related Compounds

Compounds	[ ] Equivalent to Cutoff (ng/mL)	% Cross Reactivity
AB-PINACA	10,000	0.0%
AM-2201 6-hydroxyindole metabolite	50	43.7%
AM-2201 N-(4-hydroxypentyl) metabolite	25	103.0%
AM-694 N-(5-hydroxypentyl) metabolite	25	76.4%
JWH-007	35	56.0%
JWH-015	35	72.4%
JWH-022	35	75.4%
(±) JWH-018 N-(4-hydroxylpentyl) metabolite	25	89.2%
JWH-018 5-hydroxyindole metabolite	25	88.0%
JWH-018 N-(5-hydroxylpentyl)-b-D-glucuronide	35	64.1%
JWH-018 N-(pentanoic acid) metabolite	25	99.6%
JWH-019 N-(5-hydroxylhexyl) metabolite	25	93.0%
(±) JWH-073 N-(3-hydroxybutyl) metabolite	25	102.2%
JWH-073 6-hydroxyindole metabolite	25	75.8%
JWH-073 N-(4-butanoic acid) metabolite	25	104.2%
JWH-073 N-(4-hydroxylbutyl) metabolite	25	97.2%
JWH-073 N-(4-hydroxylbutyl)-b-D-glucuronide	45	53.2%
JWH-081 N-(5-hydroxypentyl) metabolite	25	86.4%
JWH-122 N-(5-hydroxypentyl) metabolite	25	97.4%
JWH-203 N-(5-hydroxypentyl) metabolite	45	49.2%
JWH-210 N-(5-hydroxypentyl) metabolite	25	86.4%
JWH-250 N-(5-hydroxypentyl) metabolite	100	18.5%
JWH-398 N-(5-hydroxypentyl) metabolite	25	87.0%
MAM-2201 N-(4-hydroxypentyl) metabolite	35	59.4%
Methaqualone	2000	1.1%
1'-Naphthoyl Indole	20	123.3%
RCS-4-N-(5-hydroxypentyl) metabolite	50	38.1%
THJ	10,000	0.0%
THJ-018	100	26.6%
THJ-2201	50	47.7%
UR-144 N-(5-hydroxypentyl) metabolite	600	3.2%
UR-144 N-(pentanoic acid) metabolite	550	3.9%
XLR-11-144 N-(4-hydroxypentyl) metabolite	550	4.1%

For additional product performance details, see product insert.

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