

Tetrahydrocannabinol (THC) ELISA Kits for Forensic Drug Detection

Tetrahydrocannabinol (THC) is the psychoactive substance found in *Cannabis sativa* and is the primary component for causing psychoactive effects. THC is a commonly used illegal substance. THC remains illegal at the federal level, even though many states have legalized its use.

Neogen® has expanded our cannabinoids portfolio to include THC Ultra. The new immunoassay offers sensitive detection for key cannabinoids, including Δ^9 -THC, Δ^8 -THC, Δ^{10} -THC, and limited cross-reactivity with cannabidiol. THC Ultra is ideal for oral fluid and other forensic matrices where parent THC drug and metabolite detection is important.

Neogen offers several kits that target THC and its metabolites. Reviewing the cross-reactivity information for each kit, along with matrix type, is the best way to determine which kit is most appropriate for your screening requirements.

% Cross-reactivity

Analyte	THC ¹	THC Ultra ²	THC Oral Fluid ²	THC Hair ³
(-)-11-nor-9-Carboxy- Δ^8 -THC	88	1114	252	150
(-)-11-nor-9-Carboxy- Δ^9 -THC	100	962	138	150
(±)-11-nor-9-Carboxy- Δ^9 -THC	NT	741	87	83
(±)-11-Hydroxy- Δ^9 -THC	13	211	146	107
(-)- Δ^9 -THC	4	100	100	100
(-)- Δ^8 -THC	5	83	62	71
Cannabinol (CBN)	2	31	22	44
(6aR,9R)- Δ^{10} -THC	NT	59	NT	NT
(6aR,9S)- Δ^{10} -THC	NT	43	NT	NT
Δ^9 -THC Acetate	NT	2	NT	NT
Δ^9 -THCA-A	NT	2.0	NT	NT
Cannabidiol (CBD)	0.01	0.25	<0.01	0.03
Cannabigerol (CBG)	NT	0.02	NT	NT

NT – Not tested

¹Intended for forensic matrices, ²Intended for oral fluid, ³Intended for hair

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