Head Shop ‘Legal Highs’ Active Constituents
Identification Chart (July - August 2010, ‘714’ – ‘823’)
(The Criminal Justice (Psychoactive Substances) Act 2010 came into force on August 23rd)

We wish to thank Dr. István Ujváry for his immense help with this work

Pierce Kavanagh¹, Paul Spiers², John O’Brien², Sinead McNamara³, Daniel Angelov³, Daniel Mullan³, Brian Talbot⁴ and Sheila Ryder ⁴

¹ Department of Pharmacology and Therapeutics, School of Medicine, Trinity Centre for Health Sciences, St. James’s Hospital, Dublin 8.
² Drug Treatment Centre Board, Trinity Court, Pearse Street, Dublin 2.
³ School of Chemistry, Trinity College, Dublin 2.
⁴ School of Pharmacy and Pharmaceutical Sciences, Trinity College, Dublin 2.

These are the active constituents identified to date. Analysis is on-going. If you have any questions please contact us - id.lab.team@gmail.com

Note: This compound does not have a common name so we’ve given it one.

† Reference standard synthesized in our laboratory
* Tentatively identified from its mass spectrum as no standard was available
¤ Extracted, purified by column chromatography and characterized NMR/HRMS.

Red text – This compound does not have a common name so we’ve given it one.

Based on mass spectrometric data we also suspect the presence of 1-naphyrone
Note: Purchased on July 31, 2010.

Note: We also considered the isomers below which would be expected to have similar mass spectra.

However, based on first principles, the preparation of derivatives and comparison with the mass spectra analogous molecules, the mass spectral data most closely fits pentylone. In this case the mass spectrum displays a significant m/z 44 ion which may arise by loss of propylene from the IMI ion.

Note: GCMS analysis also revealed an unidentified peak. Could be a compound related to glaucine?

Note: This product contained MDPV and ethcathinone before the 511 ban.

Note: Also contains desethyl dimethocaine.

Note: This product contained butylone and lignocaine before the ‘511’ ban.

Note: Purchased on July 31 2010

Note: Previously this contained ethcathinone and ethcathinone iso-ethcathinone.

Note: Purchased to check if these products still contained the same ingredients.

Note: Previously this contained ethcathinone as reported previously

Note: Also contains desethyl dimethocaine.

Note: Previous this contained ethcathinone and ethcathinone iso-ethcathinone.

Note: Purchased from White Fizz as a reference standard.

Note: GCMS analysis also revealed several unidentified peaks. Could be compounds related to glaucine?

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Note: This product contained mephedrone before the ‘511’ ban.

Note: Also contains desethyl dimethocaine.

Note: We also considered the isomers below which would be expected to have similar mass spectra.

Based on NMR and MS data investigations are continuing.

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Note: This product contained MDPV and ethcathinone before the 511 ban.

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Note: Purchased on July 31, 2010.

Note: GCMS analysis also revealed a compound related to fluorotropacocaine?

Note: This product contained butylone and lignocaine before the ‘511’ ban.

Note: This product contained mephedrone before the ‘511’ ban.

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