



STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance:	Adrenochrome		
Based on the of the above subs		ble to the Office of Con	atrolled Substances, it appears that
	Controlled		
	Not Controlled	✓	
under the sche reason(s):	edules of the Controlled Da	rugs and Substances Ac	ct (CDSA) for the following
•	The substance is a deriva included in the CDSA.	tive of epinephrine and	is not similar to any of those
Prepared by:	Evelyn Soo		Date: Jan 18 th 2011
Verified by:	Marianne Tang		Date:
Approved by:	DIRECTOR, OFFICE OF CO		Date:

This status was requested by: Nacer Silarbi

Drug Status Report

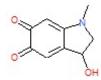
Drug: Adrenochrome

Drug Name Status: Adrenochrome is the common name.

Chemical Name: 2,3-Dihydro-3-hydroxy-1-methyl-1H-indole-5,6-dione

Other Names: 3-Hydroxy-1-methyl-5,6-indolinedione; Adraxone

Chemical structure:



Molecular Formula: C₉H₉NO₃

CAS-RN: 54-06-8

Pharmacological class / Application: Pigment

International status:

US: Adrenochrome is not currently listed in the Schedules to the US *Controlled Substances Act* and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control. nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control.

Canadian Status: Adrenochrome is a red pigment which is formed by the oxidation of epinephrine¹. The substance is not not currently listed in the CDSA and is not structurally similar to any of those included in the Schedules to the CDSA.

Recommendation: Adrenochrome is not included in the schedules to the CDSA and is not a controlled substance.

Date: 18 January 2011

¹Onishi, M. And Odaiima, T. (1997) Formation of adrenochrome from epinephrine by myeloperoxidase via a free radical, FASEB J. **11**:A892.