



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

Substance:	Alr	oha amv	ylase	

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled	
Not Controlled	Х

under the schedules of the *Controlled Drugs and Substances Act* (CDSA) for the following reason(s):

 The substance is a complex protein molecule/enzyme that does not contain any controlled substances
The enzyme is naturally occuring in saliva and pancreatic secretions, where it serves a

role in polysaccharide digestion

Supporting document(s) attached: \Box

Prepared by:		Date:	
	Ian Grimwood		
Verified by:	See email RICHARD LAING	Date:	
Approved by: _	DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES	Date:	

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The stucture is as follows:

Alpha amylase is classified as family 13 of the glycosyl hydrolases (CAZY:GH_13). The structure is an 8 stranded alpha/beta barrel containing the active site, interrupted by a ~70 a.a. calcium-binding domain protruding between beta strand 3 and alpha helix 3, and a carboxyl-terminal Greek key beta barrel domain.