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

Substance:  ________Alpha amylase__________

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

- Controlled  ☐
- Not Controlled  X

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 occurring in saliva and pancreatic secretions, where it serves a role in polysaccharide digestion

Supporting document(s) attached: ☐

Prepared by: ___________________________ Date: ___________
Ian Grimwood

Verified by:  See email ___________________________ Date: ___________
RICHARD LAING

Approved by: ___________________________ Date: ___________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

Cdsa\HC\StatusDecisions\A-2013-00235 - Full Disclosure\NC-Alpha Amylase-08-02-05.wpd
The structure 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.