

# STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

|                   |  |
|-------------------|--|
| USAN              | GLUCOSE OXIDASE  |
| PRONUNCIATION     | gloo' kose ox' i dase  |
| THERAPEUTIC CLAIM | Treatment or prevention of infections caused by bacteria, fungi or viruses |

## CHEMICAL NAMES

1. Oxidase, glucose
2. glucose oxidase (EC 1.1.3.4) from *Aspergillus niger*

## STRUCTURAL FORMULA

Glucose Oxidase from *Aspergillus niger* is a homodimer (160Kda) composed of two identical (79Kda) subunits

### Monomer / Monomère / Monómero

|            |             |            |            |            |     |
|------------|-------------|------------|------------|------------|-----|
| SNGIEASLLT | DPKDVSGRTV  | DYIIAGGGLT | GLTTAARLTE | NPNISVLVIE | 50  |
| SGSYESDRGP | IIEDLNAYGD  | IFGSSVDHAY | ETVELATNNQ | TALIRSGNGL | 100 |
| GGSTLVNGGT | WTRPHKAQVD  | SWETVFGNEG | WNWDNVAAYS | LQAERARAPN | 150 |
| AKQIAAGHYF | NASCHGVNGT  | VHAGPRDTGD | DYSPIVKALM | SAVEDRGVPT | 200 |
| KKDFGCGDPH | GVSMFPNTLH  | EDQVRSDAAR | EWLLPNYQRP | NLQVLTGQYV | 250 |
| GKVLLSQNGT | TPRAVGVEFG  | THKGNTHNVY | AKHEVLLAAG | SAVSPTILEY | 300 |
| SGIGMKSILE | PLGIDTVVDL  | PVGLNLQDQT | TATVRSRITS | AGAGQGQAAW | 350 |
| FATFNETFGD | YSEKAHELLN  | TKLEQWAEAA | VARGGFHNTT | ALLIQYENYR | 400 |
| DWIVNHNVAI | SELFLDTAGV  | ASFDVWDLPP | FTRGYVHILD | KDPYLHHFAY | 450 |
| DPQYFLNELD | LLGQAAATQL  | ARNISNSGAM | QTYFAGETIP | GDNLAYDADL | 500 |
| SAWTEYIPYH | FRPNYHGVGT  | CSMMPKEMGG | VVDNAARVYG | VQGLRVIDGS | 550 |
| IPPTQMSSHV | MTVIFYAMALK | ISDAILEDYA | SMQ        |            | 583 |

Disulfide bridges location / Position des ponts disulfure / Posiciones de los puentes disulfuro  
164-206

Glycosylation sites (N) / Sites de glycosylation (N) / Posiciones de glicosilación (N)

Asn-89

|                            |  |
|----------------------------|--|
| MOLECULAR FORMULA          | $C_{5616}H_{8574}N_{1534}O_{1754}S_{28}$ |
| MOLECULAR WEIGHT           | 126.5 kDa (peptide)                      |
| TRADEMARK                  | None as yet                              |
| MANUFACTURER               | Exoxemis                                 |
| CODE DESIGNATION           | GO; component of E-101                   |
| <u>CAS</u> REGISTRY NUMBER | 9001-37-0                                |