# Appendix I, Example I-A  Table of Crude Data: Enzyme System

## Two-Drug Combinations in Vitro (Adopted from Table 10 of *Pharmacol Rev* 58: 621-681, 2006)

Table 10. *Inhibition of horse liver alcohol dehydrogenase by a competitive (ADP) and a non-competitive (o-PAL) inhibitors*. The fractional inhibitions ($f_{i \text{ or } Fa}$) of the horse liver alcohol dehydrogenase reaction were measured in the presence of $I_1$, ADP, and/or $I_2$, *o*-phenanthroline (o-PAL). These $f_i$ values are retrieved from the graph of experimental observations by Yonetani and Theorell, 1964 (Fig. 3E). These data were used as an example to check the median-effect principle and the multiple drug effect equation earlier (Chou and Talalay, 1981) prior to the computer software became available and prior to the term "combination index" was introduced. The computerized analyses of these data with CompuSyn are given below with full or partial data and with constant ratio and non-constant ratio analysis. Some combinations (i.e., in diagonal [1]~[5]) are in constant ratio (1:17.4) and some (i.e., in two triangles) are in non-constant ratios (for Computer printout, **see Appendix I,A  CompuSyn Report**).

| ADP | $F_a$ at [*o*-Phenanthroline] of | | | | | |
|---|---|---|---|---|---|---|
| | **0** | **8.7 µM** | **17.4 µM** | **26.1 µM** | **34.8 µM** | **43.5 µM** |
| **µM** | | | | | | |
| **0** | **0** | 0.132 (6) | 0.267 (7) | 0.411 (8) | 0.476 (9) | 0.548 (10) |
| **0.5** | 0.175 (1) | **0.507** [1] | 0.633 | 0.738 | 0.777 | 0.816 |
| **1.0** | 0.358 (2) | 0.676 | **0.769** [2] | 0.829 | 0.858 | 0.882 |
| **1.5** | 0.492 (3) | 0.742 | 0.823 | **0.872** [3] | 0.895 | 0.915 |
| **2.0** | 0.542 (4) | 0.783 | 0.865 | 0.900 | **0.919** [4] | 0.932 |
| **2.5** | 0.598 (5) | 0.817 | 0.883 | 0.914 | 0.934 | **0.944** [5] |