

Diagram 1) Absorption of Hemoglobin Soret Band after 5 Weeks Incubation in Group with Hemoglobin (P), Hemoglobin with Fructose (P+S), Hemoglobin with Fructose and Aspirin (P+S+A), Hemoglobin with Fructose and 10 macro-grams per ml Bee Venom (P+S+B1), 20 macro-grams per ml (P+S+B2), and 40 macro-grams per ml (P+S+B3). * Significant Difference with Group p; # Significant Difference with Group P+S; †Significant Difference with Group P+S+A

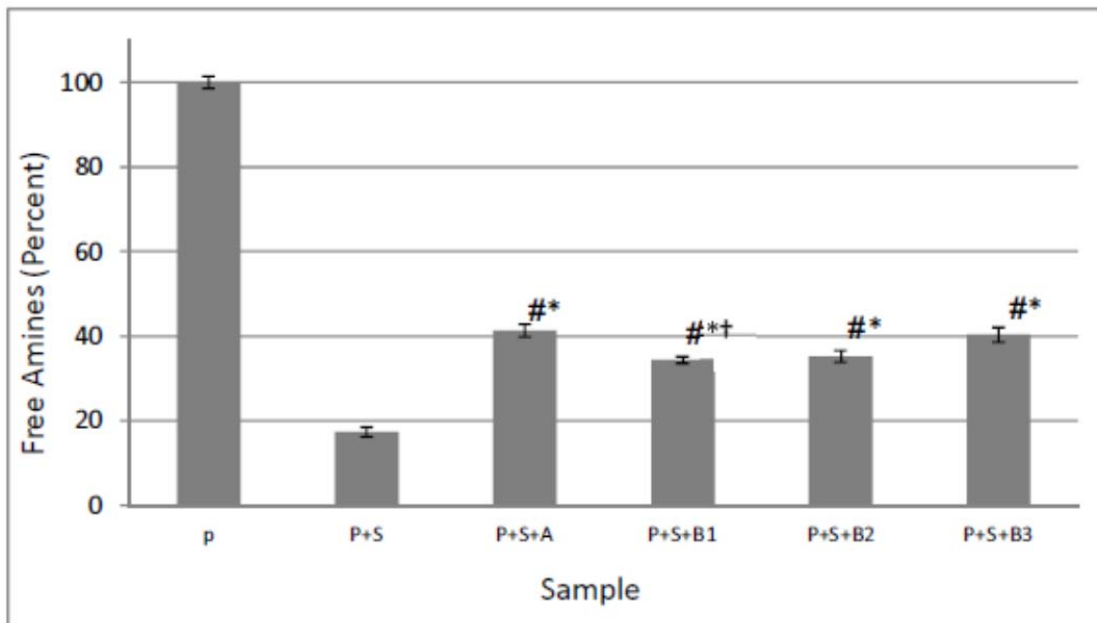


Diagram 2) Percent of Free Amines in Hemoglobin Structure after 5 Weeks Incubation (before Incubation with the same Result as that of Control Group) in Hemoglobin Group (P), Hemoglobin with Fructose (P+S), Hemoglobin with Fructose and Aspirin (P+S+A), Hemoglobin with Fructose and 10 macro-grams per ml Bee Venom (P+S+B1), 20 macro-grams per ml (P+S+B2), and 40 macro-grams per ml (P+S+B3). * Significant Difference with Group p; # Significant Difference with Group P+S; †Significant Difference with Group P+S+A

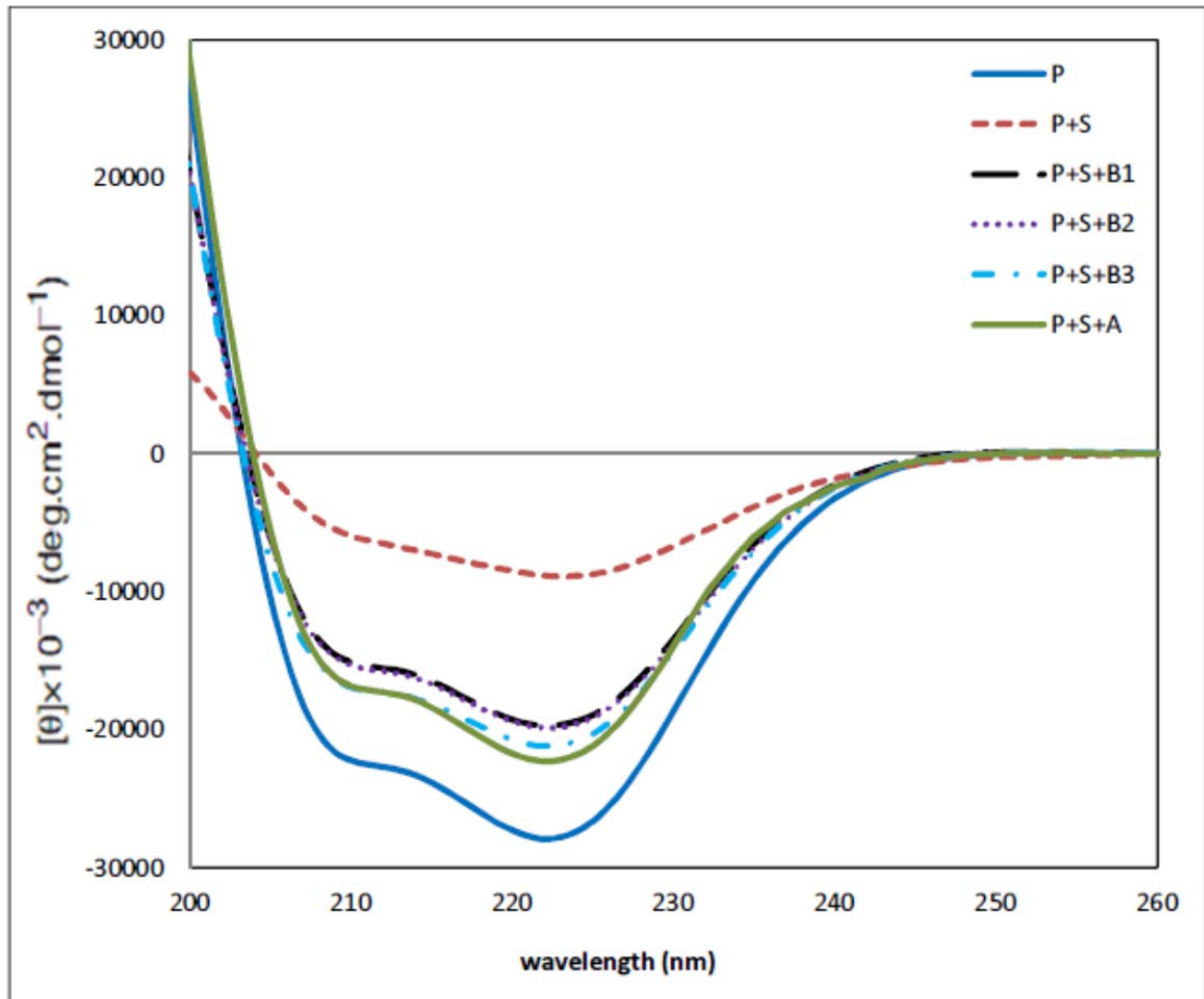


Diagram 3) CD Spectrum related to Hemoglobin after 5 Weeks Incubation (before Incubation with the same Result as that of Control Group) in Hemoglobin Group (P), Hemoglobin with Fructose (P+S), Hemoglobin with Fructose and Aspirin (P+S+A), Hemoglobin with Fructose and 10 macro-grams per ml Bee Venom (P+S+B1), 20 macro-grams per ml (P+S+B2), and 40 macro-grams per ml (P+S+B3). (Resulted data from this spectrum show relatively annihilation of the second structure of protein at the presence of fructose. In addition, fructation results in decrease in elliptical form at 210 to 230 nm region.)

Group	Alpha Helix	Beta Plate	Accidental Twist
P	70.3	13.5	16.2
P+S	32.7	35.1	32.2
P+S+A	48.5	27.6	23.9
P+S+B1	40.6	27.3	32.1
P+S+B2	42.1	30.6	27.3
P+S+B3	47.1	29.1	23.8

Table 1) Relative Frequency of the Content of Hemoglobin Second Structure in various Incubation Groups