

Enzymatic Profile and Antibiotic Sensitivity of Some *Vibrio* and *Aeromonas* Strains

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API-ZYM system and antibiotic sensitivity assay were used to characterize twelve strains of *Vibrio* and three strains of *Aeromonas*, each belonging to different species. API-ZYM showed that all tested strains exhibited negative activity for α -galactosidase, β -glucuronidase, α -mannosidase and α -flucosidase. All strains expressed positive activities for alkaline phosphatase, esterase (C4), esterase lipase (C8), leucine arylamidase, acid phosphatase, and naphthol AS-BI phosphohydrolase. β -glucosidase activity was a characteristic of the three *Aeromonas* strains. Also, *Aeromonas* strains as well as *V. damsela* gave very high N-acetyl β -glucosamidase activities. *Aeromonas hydrophila*, *A. trota* and *V. hollisae* were susceptible to all 9 tested antibiotics, and C10 and C30 were active against all tested strains. API-ZYM system and antibiotic susceptibility profile gave additional information that can help in identifying and separating very close species of *Vibrio* and *Aeromonas*.

Key words: *Vibrio*, *Aeromonas*, API-ZYM system, antibiotic susceptibility