Let $X_1, X_2, ..., X_n$ be iid with empirical dist Q(x)Let $E \subseteq \mathbf{P}$ be a set of probability Distributions over the finite alphabet H. Then $Q^{n}(E) = Q^{n}(E \cap \mathbf{P}_{n}) \le (n+1)^{|H|} 2^{-nRE(P^{*}|Q)}$

Where $P^* = \min_{P \in F} RE(P \parallel Q)$