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**Purification and Characterization of Cytochrome P-450_{14DM}
(lanosterol 14 α -demethylase) from Pig Liver Microsomes***

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Cytochrome P-450_{14DM}, which catalyzes lanosterol 14 α -demethylation, from pig liver microsomes was purified to a state of virtually homogeneous by gel electrophoresis. Its apparent monomeric molecular weight was estimated to be 53,000, by sodium dodecyl sulfate-polyacrylamide gel electrophoresis, and the amino-terminal amino acid sequence was Gly-Leu-Leu-Thr-Gly (Leu) -Asp-Leu-Leu-Gly-Ile. When reconstituted with NADPH-cytochrome P-450-reductase, the enzyme showed a high activity for lanosterol and 24,25-dihydrolanosterol 14 α -demethylation. Furthermore, the oxygenated intermediates of 24,25-dihydrolanosterol 14 α -demethylation, 32-hydroxy-24,25-dihydrolanosterol and 32-oxo-24,25-dihydrolanosterol, were converted to the 32-nor compound, 4,4-dimethyl-cholesta-8,14-dien-3 β -ol, by the reconstituted enzyme system.

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