

电化学控制释放三磷酸腺苷

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摘要 在含有甲苯磺酸钠和吡咯的水溶液中电化学生成聚吡咯膜.当膜在三磷酸腺苷(ATP)的溶液中氧化时,ATP掺入膜内;当膜还原时ATP从膜中释放出来,释放出的ATP的量可由紫外可见光谱法测定.

关键词 [紫外分光光度法](#) [膜](#) [吡咯](#) [聚吡咯](#) [三磷酸腺苷](#) [电化学控制释放](#) [对甲苯磺酸钠](#)

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Electrochemical controlled release of adenosine triphosphate

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Abstract Polypyrrole (PPy) film was synthesized by anodic polymerisation of pyrrole onto the surface of platinum electrode in the solution of sodium p-toluene sulfonate (NaTsO). When this film was oxidized anodically in an aqueous solution of ATP, the ATP anions were incorporated into the film. Release of ATP from the film could be accomplished by reduction of the film in aqueous electrolyte solution The total amount of ATP released from the film was determine by UV spectroscopic method.

Key words [ULTRAVIOLET SPECTROPHOTOMETRY](#) [FILMS](#) [PYRROLE](#) [POLYPYRROLE](#) [ADENOSINE TRIPHOSPHATE \(ATP\)](#)

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通讯作者

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