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Summary

The invention relates to a buffer solution for suspending animal or human cells and for dissolving biologically active molecules in order to introduce said biologically active molecules into the cells using an electric current and to a method for introducing biologically active molecules into animal or human cells using an electric current and a buffer solution. The inventive buffer solution has a buffering capacity of at least 20 mmol $* l^{-1} * pH^{-1}$ and an ionic strength of at least 200 mmol $* l^{-1}$ during a change to the pH value from pH 7 to pH 8 and at a temperature of 25 °C. The use of a buffer solution of this type in the corresponding method allows biologically active molecules to be introduced into animal and human cells with a high degree of transfection efficiency and at the same time a low cell mortality. Different cell types, in particular dormant and actively dividing cells of low activity, can be successfully transfected in said buffer solution.

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