## Specificity of release from biocompatible microcapsules with ovomucoid integrated into the shell

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**Abstract**—The possibility of control of model substance release from microcapsules made of bovine serum albumin (BSA) and tannic acid (TA) by introducing ovomucoid into their shell was investigated. Since tannic acid, bovine serum albumin and ovomucoid are natural compounds, the systems should be non-toxic, biodegragable and biocompatible. Polymer microcapsules are often used for drug and biological molecules delivery (e.g., DNA, peptides, and polysaccharides). It was obtained that stable complexes consisting of tannic acid, BSA and ovomucoid formed and structures of these complexes were investigated. This system can be used in future for oral delivery of different proteins and peptides.

Keywords—layer-by-layer; tannic acid; release; ovomucoid; scanning electron microscope