

The invention relates to experimental biology, in particular to the field of fishery, and can be used for obtaining prolonged hypometabolic state of vital functions (hypobiosis), which is prolonged for the long term with the level of hypometabolism in the regime of prolonging, in the certain degree similar to the level of the state of natural wintering of the fish. A method of bringing and preserving the fish in the state of artificial hypobiosis includes the use of hyperoxic and hypercapnic environment with hyperoxyc conditions created in the aqueous environment by means of saturating the water with a gaseous mixture of carbon dioxide and oxygen in a ratio of 25...75% : 75...25%, a water pH is brought up to 6.0.....6.7 while the temperature is above-zero one.