

DRDO – FICCI Accelerated Technology Assessment and Commercialization Programme

Forced Swim Endurance test system

Forced-swimming test is a method used for evaluating the endurance capacity of mice treated with various nutraceuticals/functional foods/plant extracts/drugs. Several natural compounds present in various fruits, vegetables, medicinal plants and herbs have been proved to be capable of increasing the physical work capacity / athletic performance of the humans. Supplementation of these compounds has also been shown to increase the capacity exhaustive exercise in experimental mouse models. Therefore, a most reliable method with high reproducibility is required to screen the myriad of plants or drugs for its physical performance enhancing properties in mice. The method also should have advantageous as compared to other swimming test with short testing period without affecting the animal's ability to swim to their maximum capacity.

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