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УДК 004.942

<https://doi.org/10.23947/2687-1653-2023-23-1-95-106>


Научная статья



Математическая модель системы управления pH в *in vitro* модели желудочно-кишечного тракта домашней птицы

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Аннотация

Введение. Существенная нелинейность химических реакций кислот и оснований определяет алгоритмы управления в режиме подкисления или подщелачивания, то есть периодической дозации минимального объема кислоты или щелочи. Такое регулирование может быть малоэффективным, т. е. допускает недостаточную или избыточную концентрацию контролируемого вещества. Статья посвящена проблеме точного регулирования водородного показателя в мини-биореакторах. Предлагается использовать цифровую модель системы управления кислотностью для подбора концентраций дозируемых растворов, определения методов регулирования и повышения точности. Цель работы — обеспечение требуемой точности регулирования pH в *in vitro* мини-модели желудочно-кишечного тракта статического типа.

Материалы и методы. Исходная структурная схема модели включает накопители и потоки. Она представляет собой базу для основных дифференциальных уравнений, характеризующих изменение объема и кислотности. Для корректировки показаний кислотности результирующего раствора по температуре создана статическая модель, основанная на полиномиальной аппроксимации экспериментальных данных методом наименьших квадратов. В прикладном пакете Matlab Simulink исследованы структурные элементы математической модели. На реальной системе *in vitro* моделирования искусственного желудочно-кишечного тракта домашней птицы определены переходные характеристики для подтверждения адекватности математической модели.

Результаты исследования. В рамках данной работы авторы создали и проанализировали нелинейную математическую модель изменения pH в биореакторе с учетом внешних управляющих воздействий. Потоки раствора соляной кислоты, раствора щелочи и слива раствора из реактора представлены как элементы дифференциального уравнения, описывающего накопление жидкости в реакторе. Для повышения точности решение доработали с учетом температурной зависимости водородного показателя. Предложена математическая модель дозирования на основе регулятора с каналами щелочи и кислоты. Полученные данные позволили генерировать объединенную модель процесса регулирования pH в биореакторе. Адекватность решения подтверждена опытным путем. В виде структурных схем показаны модели: регулятора pH, регулирования объема содержимого в реакторе и химических реакций. Сравниваются переходные процессы математической модели и реальной системы управления. Установлено, что переходные характеристики математической модели и реальной системы идентичны по времени регулирования. Относительная погрешность регулирования реальной системой составила 0,35 %, а математической модели — 0,1 %, что соответствует требуемой точности регулирования $\pm 0,1$ pH. В виде графиков показано влияние исследованных потоков на реакцию нейтрализации.

Обсуждение и заключение. Предлагаемая математическая модель позволяет подобрать оптимальные методы и алгоритмы регулирования кислотности, что ускорит создание регулятора нелинейного процесса регулирования водородного показателя. В будущем эти наработки можно интегрировать в комплексную цифровую модель всего искусственного желудочно-кишечного тракта домашней птицы для оптимизации алгоритмов управления (дозации, перемешивания, периодичности и т. п.), а также аппроксимации к объектам *in vivo*.

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