

## CASE STUDY

# CURCUMIN CLEANING

In Munson Mixer with Chematic® 722

DOBER

### CURRENT CLEANING CHALLENGE

A global manufacturer of Curcumin-based nutraceuticals sought to improve its manufacturing cleaning processes.

Its large **Munson mixer proved difficult to clean**. The incumbent cleaning agent did not clean the curcumin product, resulting in the need to re-clean the large unit multiple times to achieve desired state. This cleaning process took up to **two shifts (16 hours) to complete**.

The mixer had a CIP system. However, since the cleaning agent was not effective at cleaning the curcumin, it was not used. Instead, **the operators cleaned the unit manually**.

This plant was at capacity and they wanted to reduce cleaning time without sacrificing quality or safety.

### CHEMATIC® SOLUTIONS & RESULTS

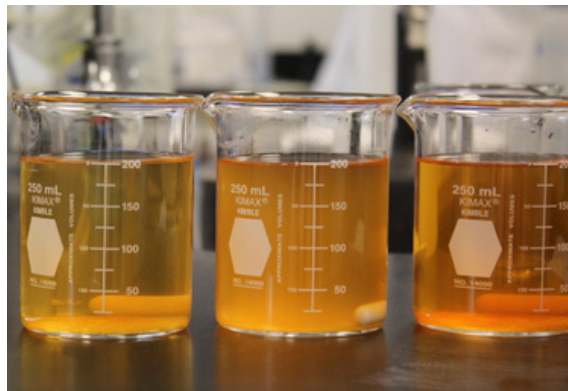
**Dober's** Custom Cleaning Evaluation process replicated the soil load and performed evaluations to identify not only the proper detergent but also the proper cleaning process. Curcumin was challenging clean, but **Dober's Chematic® 722** offered the most effective and robust cleaning agent for curcumin.

Cleaning with **Chematic® 722 cut cleaning time down to 2-3 hours**. Additional benefits are:

- Increased production capacity = more revenue potential for the site
- Made the Clean-in-Place (CIP) system effective
- Almost eliminated manual cleaning
- Improved safety by reducing operator chemical exposure time



SOIL LOAD REPLICATED



DETERGENT DISSOLUTION STUDIES



SUCCESSFUL CLEANING

SAFE, EFFICIENT AND EFFECTIVE CLEANING WITH CHEMATIC FORMULATED DETERGENTS