



**TOSOH BIOSCIENCE**

TOSOH

# **Ca<sup>++</sup>Pure-HA<sup>TM</sup> Business Continuity Plan**

Ensuring a Continuous Supply of Liquid Chromatography  
Media



## Corporate Mission

Tosoh Corporation's corporate mission is "to contribute to society through the chemistry of innovation." Good management is essential to the mission. It requires a commitment to superior products and regard for the environment, safety, and health. Emissions must be minimal, and the characteristics of chemical substances understood. These are our responsibilities as we supply products that benefit society. Our continued viability as a chemical company is premised on the reliable manufacture of safe products. It also hinges on our being a member of society overall. We must proactively communicate with the communities where we operate, earn community trust, and provide communities a sense of security.

## Increased Focus Towards Business Continuity for Ca<sup>++</sup>Pure-HA Production

Ca<sup>++</sup>Pure-HA, a packing material for liquid chromatography offered by Tosoh Bioscience LLC, is an important raw material for the biopharmaceutical manufacturing process. Because of its highly specific properties, it is difficult to switch to another product should supply lines be disrupted. Therefore, customers have a strong desire for assurances of stable supply. In response, Tosoh Bioscience LLC is endeavoring to fulfill its responsibility to provide continuous supply of its product by including its own independent measures, in addition to Tosoh's overall business continuity measures.

With the goal of ensuring a secure supply chain for our customers and with a vision towards increasing demand, Tosoh Bioscience LLC has begun work towards commissioning a Ca<sup>++</sup>Pure-HA production facility at our Grove City, Ohio campus.

## Production Sites

Currently, Ca<sup>++</sup>Pure-HA is produced by a third-party supplier with its production facility located in East Troy, Wisconsin. The third-party supplier is committed to providing Ca<sup>++</sup>Pure-HA on a continuous basis as per the terms of the manufacturing agreement. This supplier will continue to provide Ca<sup>++</sup>Pure-HA media for Tosoh Bioscience LLC with no plans to discontinue the manufacturing agreement.

The newly constructed production facility at our Grove City, Ohio campus will serve to increase production capacity. This facility will operate under the sole management of Tosoh Bioscience LLC.

## Production Plan

Tosoh Bioscience LLC will continue to solely utilize the third-party supplier for manufacturing Ca<sup>++</sup>Pure-HA until the new production facility is ready for commercial operation. When the new production facility achieves commercial operation, Tosoh Bioscience LLC will utilize the production capabilities of both sites. The third-party supplier will continue to provide Ca<sup>++</sup>Pure-HA media to Tosoh Bioscience with no plans to discontinue the supply agreement.

The balance of production from each facility will be monitored and adjusted, as needed, based on the current demand and production schedule availability at each facility. If unforeseen circumstances arise such that operational capabilities are lost at either facility, manufacturing and stocking activities can and will continue at the other facility during the recovery period.



## Ca<sup>++</sup>Pure-HA Inventory Sites

Tosoh Bioscience LLC maintains strategic Ca<sup>++</sup>Pure-HA inventories globally. To support the North and South American markets, inventory is maintained at the third-party production site in East Troy, Wisconsin as well as at Tosoh Bioscience LLC's Grove City, Ohio distribution facility. Additional inventory sites were chosen to support the European and Asia-Pacific markets. These satellite inventory sites are in Belgium, Japan, and China. While distribution to a customer will often be performed by the nearest inventory site, each inventory site can distribute Ca<sup>++</sup>Pure-HA outside of their region, if the need arises to fulfil our customers' needs.

## Conclusions

We believe it is our responsibility to provide a stable supply of Ca<sup>++</sup>Pure-HA to our global customers. Tosoh Bioscience LLC continues its commitment to this goal through the commissioning of its own Ca<sup>++</sup>Pure-HA production facility. This project reduces supply chain risks to our customers as the new facility will create redundancy in our production capabilities. This will alleviate the supply chain risks associated with maintaining a single supply source such as insufficient stocking levels, long lead times, and other logistical challenges. Secondly, the new facility will increase our total manufacturing capacity of Ca<sup>++</sup>Pure-HA media to ensure supply for anticipated market growth. Additionally, by commissioning a facility under the sole management of Tosoh Bioscience LLC, we are better positioned to make critical and timely decisions to ensure a steady supply of media. The reduction in supply chain risk is further mitigated by maintaining the redundancy of five global inventory sites for global distribution.

Ca<sup>++</sup>Pure-HA is a trademark of Tosoh Bioscience LLC.

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