



March 1, 2023

Subject: Detrex Contaminants Statement

To whom it may concern,

Detrex Chemicals' hydrochloric acid products are made using a direct synthesis process using only high purity hydrogen, chlorine and water. We purify our DI water on site. The HCl product from our process is chemically pure, with very few trace contaminants.

Numerous agencies and bodies, such as the United States Pharmacopeia (USP), the Food Chemical Codex (FCC), and the European Pharmacopeia (EP) establish limits for residual contaminants, and the testing methodologies to test for those contaminants. The contaminants identified by USP / FCC / EP are in the part per million (PPM) range. To assure a high degree of analytical precision Detrex products are analyzed using an Inductively Coupled Plasma (ICP) Mass Spectrometer. Our laboratory equipment has a detectability range for some impurities in the parts per billion (PPB) range, which is 1,000x higher resolution than required by most regulatory bodies today.

For any testing methods which differ from the official regulatory methods Detrex has conducted appropriate validation studies to scientifically verify our analytical methods, techniques, and equipment are equal or superior to the official methods listed in the USP / NF / EP. Detrex Chemicals monitors and performs analyses of both in-process product and every individually defined batch of product

Detrex Chemicals qualifies all our suppliers and routinely monitors the quality and purity of the products they ship to us. We also have a process for managing any non-conforming incoming raw materials and components to prevent non-conforming raw materials or components being used in our manufacturing or packaging operations.

Sincerely,

A handwritten signature in black ink that reads "Dave Morgan". The signature is written in a cursive, flowing style.

Dave Morgan
Global Product Manager, Hydrochloric Acid
Detrex Chemicals