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Total Organic Carbon (TOC) - Medistri

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Total Organic Carbon (TOC) is a measure of the amount of carbon present in organic compounds in a sample. TOC analysis is a commonly used method to determine the level of organic contaminants in water and other materials. In the medical device industry, TOC analysis is important because it helps ensure the safety and efficacy of medical devices. Organic contaminants in medical devices can cause adverse reactions in patients, reduce the effectiveness of the device, or cause the device to malfunction. TOC analysis can identify and quantify these contaminants, allowing manufacturers to ensure that their medical devices meet regulatory requirements and industry standards. This, in turn, helps protect patients and improve the overall quality of medical devices.

TOC analysis helps ensure the safety and efficacy of medical devices by identifying and quantifying organic contaminants in the materials used to make the devices. These contaminants can include chemicals, bacteria, and other substances that can be harmful to patients or affect the performance of the medical device. For example, TOC analysis can be used to detect the presence of bacteria in water used to manufacture medical

What is Total Organic Carbon Analysis and why is it important for medical device manufacturers?

Total Organic Carbon Analysis, or TOC analysis, is a critical tool in the production of safe and effective medical devices. By measuring the total amount of organic contaminants present in a sample, TOC analysis allows manufacturers to ensure that their products are free of potentially

devices.

TOC analysis can also be used to measure the level of organic contaminants in the materials used to make the device, such as plastics and adhesives. These contaminants can affect the strength, flexibility, or other properties of the device, potentially reducing its effectiveness or causing it to malfunction. Overall, TOC analysis is a critical tool for ensuring the safety and efficacy of medical devices. By detecting and quantifying organic contaminants, TOC analysis helps manufacturers meet regulatory requirements and industry standards, and helps protect patients from harm according to ISO 19227:2018, DIN EN ISO 10993-18 is also applicable.

To learn more about our in-House Laboratory's Total Organic Carbon (TOC) Testing Services, visit on our website at www.medistri.swiss or directly contact our team at contact@medistri.swiss.

harmful substances.

How does Medistri's in-house laboratory perform TOC analysis?

TOC analysers quickly and accurately measure the total organic carbon content of medical device samples. Our laboratory team follow a strict protocol to ensure the reliability of the results, including pretreatment of the samples with a strong oxidising agent to break down organic compounds into carbon dioxide, which is then measured using a specialised detector.

- The Medistri Team

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Medistri's Total Organic Carbon (TOC) Testing Services: <u>https://www.medistri.swiss/service/our-laboratory</u>