



Westfalen

>SO-05738/2<

Product line Protadur®: Microbiological assessment

The food gases of the Westfalen product line Protadur® are assessed with regard to potential microbiological hazards.

Westfalen AG refers to the elaboration of IGV "Leitlinien für gute Verfahrenspraxis zur Herstellung, Abfüllung und Distribution von Lebensmittelgasen (IGV-TL-01L)" and to the technical bulletin „Microbiological Quality of Medical, Pharmaceutical and Food Grade Gases (TB 02/20)" by EIGA.

The food gases are produced under changing and partly extreme temperature and pressure conditions. This production process uses an environment which is not prone for growth or survival of microorganisms. This also applies to the prevailing conditions in gas cylinders during filling and storage.

A one-time contamination test showed that no microorganisms could be detected in the gas stream from intentionally contaminated cylinders. Furthermore, the cooling water used in the process of air separation is tested regularly for microbiological contamination.

Münster, December 14th, 2022