

# Praktik Kerja di PT Forsta Kalmedic Global Periode 4 September - 27 Oktober 2023, Pemantauan Kualitas Air Murni PT Forsta Kalmedic Global Periode Agustus - Desember 2022 = Internship at PT Forsta Kalmedic Global, 4th September - 27th October 2023, Quality Monitoring of Purified Water PT Forsta Kalmedic Global August - December 2022

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## Abstrak

Air merupakan bahan yang paling banyak digunakan dalam kehidupan, termasuk proses produksi berbagai jenis industri. Air memiliki beberapa tingkatan kualitas yang dibedakan berdasarkan proses pemurniannya, salah satu jenisnya adalah air murni. PT Forsta Kalmedic Global menggunakan air murni untuk keperluan sanitasi dan bahan pendukung pembuatan kultur media yang terdistribusi dalam beberapa ruangan produksi. Pemantauan kualitas air murni secara rutin dilakukan untuk memastikan bahwa air murni yang digunakan dalam rangkaian proses produksi memenuhi persyaratan kimia dan mikrobiologis yang ditetapkan. Pada tugas akhir ini, evaluasi terhadap hasil pemantauan air murni, khususnya pada ruangan Mixing selama periode bulan Agustus – Desember 2022 dilakukan untuk menilai kualitas dan kesesuaiannya terhadap persyaratan air murni yang telah ditentukan. Evaluasi yang dilakukan meliputi uji total karbon (TOC), uji konduktivitas, uji pH, dan uji microbial limit. Pengambilan data dilakukan secara retrospektif dengan mengumpulkan data hasil pemantauan air murni bulan Agustus – Desember 2022 yang kemudian dievaluasi berdasarkan persyaratan USP. Hasil evaluasi terhadap total karbon, konduktivitas, pH, dan total mikroba berturut-turut adalah 0.60 – 44.90 ppb; 0.086 – 0.982 uS/cm,; 6.30 – 6.90; dan <1 CFU/mL. Berdasarkan hasil tersebut, kualitas air murni PT Forsta Kalmedic Global yang dihasilkan oleh mesin pada bulan Agustus – Desember 2022 telah memenuhi spesifikasi.

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Water is the most widely used material in life, including the production processes of various types of industry. Water has several levels of quality which are differentiated based on the purification process, one type of which is purified water. PT Forsta Kalmedic Global uses purified water for sanitation purposes and as supporting material for making culture media which is distributed in several production rooms. Purified water quality monitoring is routinely carried out to ensure that the purified water used in the production process meets the specified chemical and microbiological requirements. In this research, an evaluation of the results of purified water monitoring, especially in the Mixing room during the period August – December 2022 was carried out to assess its quality and suitability to the specified purified water requirements. Evaluations carried out include total carbon (TOC) tests, conductivity tests, pH tests and microbial limit tests. Data collection was carried out retrospectively by collecting purified water monitoring data from August – December 2022 which was then evaluated based on USP requirements. The evaluation results of total carbon, conductivity, pH and total microbes were respectively 0.60 – 44.90 ppb; 0.086 – 0.982 uS/cm,; 6.30 – 6.90; and <1 CFU/mL. Based on these results, the quality of PT Forsta Kalmedic Global's purified water produced by the machine in August – December 2022 has met specifications.