

Product Testing and Evaluation Certification Report

Prepared for Xenosep Technologies
September 15, 2010



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High Standards • Integrity • Technical Expertise



ANSI Accredited Program
PRODUCT CERTIFICATION
NSF/ANSI Standards 40/46/245
#0833

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Date: September 15, 2010
Test No.: 020100197
For: Xenosep Technologies

At the request of Xenosep Technologies, North American Testing, LLC conducted comparative performance testing of two different brands of glass fiber filter disks without organic binder. The filter media was supplied by Xenosep Technologies and was identified as follows: GE Healthcare-Whatman® 934-AH® and Xenosep Technologies XenoMax®. Each set of filters was evaluated with a high solids sample (MLSS from the aeration chamber of an aerobic on-site wastewater treatment system), a medium solids sample (untreated influent from a municipal treatment plant) and a low solids sample (treated effluent from an aerobic on-site wastewater treatment system). The raw data is attached.

- A. A sample from each of the three sources was analyzed for Total Suspended Solids (TSS) following SM2540D and using each type of filter media. Duplicate analysis was performed on each sample for quality control purposes.
- B. A sample from each of the three sources was analyzed for Fixed and Volatile Solids following SM2540E and using each type of filter media. Volatile Solids (VSS) was reported. Duplicate analysis was performed on each sample for quality control purposes.

In summary, we found the XenoMax® and 934-AH® to give demonstrably equivalent results and would expect each brand of filter media to provide comparable results and performance in SM2540D/E.



Alan Hepp
Vice President



Douglas Steele
Technical Manager

934-AH and Whatman are registered trademarks of GE Healthcare companies.
XenoMax is a registered trademark of Xenosep Technologies.



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TSS Data



Date 9/14/2010

Tech DAS

| Sample | Filter Type | Filter # | Sample Volume (mL) | W ₁₋₁ (g) | W ₁₋₂ (g) | W ₂₋₁ (g) | W ₂₋₂ (g) | TSS (mg/L) |
|--|-------------|----------|--------------------|----------------------|----------------------|----------------------|----------------------|------------|
| 8- A1 (MLSS) | 934-AH | 1 | 8 | 0.1102 | 0.1102 | 0.1279 | 0.1277 | 2187.5 |
| | | 2 | 8 | 0.1088 | 0.1087 | 0.1262 | 0.1261 | 2175.0 |
| | Xenomax | 7 | 8 | 0.1171 | 0.1171 | 0.1347 | 0.1347 | 2200.0 |
| | | 8 | 8 | 0.1169 | 0.1168 | 0.1343 | 0.1343 | 2187.5 |
| 22 - I (Influent/Raw Municipal Wastewater) | 934-AH | 11 | 35 | 0.1085 | 0.1085 | 0.1166 | 0.1163 | 222.9 |
| | | 12 | 35 | 0.1093 | 0.1093 | 0.1175 | 0.1172 | 225.7 |
| | Xenomax | 17 | 35 | 0.1169 | 0.1169 | 0.1250 | 0.1248 | 225.7 |
| | | 18 | 35 | 0.1173 | 0.1172 | 0.1255 | 0.1252 | 228.6 |
| 8 - E2 (Effluent/Treated Wastewater) | 934-AH | 21 | 900 | 0.1091 | 0.1090 | 0.1125 | 0.1124 | 3.8 |
| | | 22 | 900 | 0.1103 | 0.1103 | 0.1136 | 0.1135 | 3.6 |
| | Xenomax | 27 | 900 | 0.1174 | 0.1174 | 0.1209 | 0.1206 | 3.6 |
| | | 28 | 900 | 0.1176 | 0.1175 | 0.1210 | 0.1207 | 3.6 |
| Blank | 934-AH | 31 | 0 | 0.1079 | 0.1079 | 0.1079 | 0.1079 | |
| | Xenomax | 34 | 0 | 0.1169 | 0.1168 | 0.1168 | 0.1169 | |

VSS Data

Date 9/15/2010

Tech DAS

| Sample | Filter Type | Filter # | Sample Volume (mL) | W ₁₋₁ (g) | W ₁₋₂ (g) | W ₂₋₁ (g) | W ₂₋₂ (g) | VSS (mg/L) |
|--|-------------|----------|--------------------|----------------------|----------------------|----------------------|----------------------|------------|
| 8- A1 (MLSS) | 934-AH | 1 | 8 | 0.1279 | 0.1277 | 0.1129 | 0.1127 | 1875.0 |
| | | 2 | 8 | 0.1262 | 0.1261 | 0.1113 | 0.1110 | 1887.5 |
| | Xenomax | 7 | 8 | 0.1347 | 0.1347 | 0.1196 | 0.1196 | 1887.5 |
| | | 8 | 8 | 0.1343 | 0.1343 | 0.1193 | 0.1192 | 1887.5 |
| 22 - I (Influent/Raw Municipal Wastewater) | 934-AH | 11 | 35 | 0.1166 | 0.1163 | 0.1096 | 0.1093 | 200.0 |
| | | 12 | 35 | 0.1175 | 0.1172 | 0.1105 | 0.1103 | 197.1 |
| | Xenomax | 17 | 35 | 0.1250 | 0.1248 | 0.1179 | 0.1178 | 200.0 |
| | | 18 | 35 | 0.1255 | 0.1252 | 0.1183 | 0.1182 | 200.0 |
| 8 - E2 (Effluent/Treated Wastewater) | 934-AH | 21 | 900 | 0.1125 | 0.1124 | 0.1093 | 0.1094 | 3.3 |
| | | 22 | 900 | 0.1136 | 0.1135 | 0.1106 | 0.1106 | 3.2 |
| | Xenomax | 27 | 900 | 0.1209 | 0.1206 | 0.1178 | 0.1177 | 3.2 |
| | | 28 | 900 | 0.1210 | 0.1207 | 0.1179 | 0.1178 | 3.2 |
| Blank | 934-AH | 31 | 0 | 0.1079 | 0.1079 | 0.1078 | 0.1079 | |
| | Xenomax | 34 | 0 | 0.1168 | 0.1169 | 0.1168 | 0.1169 | |