

Sampling & Testing

QuarkE-MIC-PM

游离微生物采样测试盒

Planktonic Microorganisms Sampling and Testing Kit

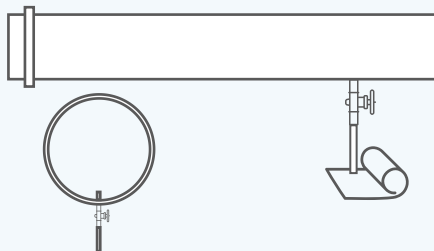
QuarkE-MIC-PM系统基于绝迹稀释法（MPN），专注于海洋和陆地油气田设备设施中流体介质内SRB、TGB、FB等易导致MIC的微生物快速采样及测试。本系统及使用说明参照NACE TM0194和NACE TM0212等标准。

使用说明：

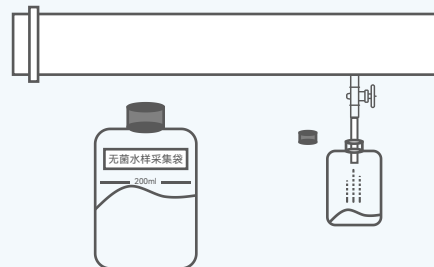
Step1: 现场使用该测试盒，应穿戴安全帽、抗静电工服、工靴、护目镜、耳塞、手套、防硫化氢呼吸器，或根据现场安全管理规定配置。



Step2: 选择有代表性的采样点，对于输油输水管道等设施，采样点位于水平管段6点钟方向为宜。使用测试盒中的消毒布，将采样点外部充分擦拭消毒。



Step3: 打开采样点阀门，置换采样位置的样品1~3min，关闭阀门；打开测试盒中无菌采样袋盖子，将袋口接入采样点，迅速微开采样点阀门，低流速取样200ml，迅速拧紧盖子。





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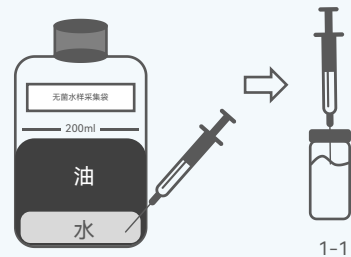
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使用说明:

Step4: 记录取样日期、时间、压力、温度、pH（如没有数据，需现场测试）、溶解氧、 H_2S 浓度、其它可采集到的水化学数据、样品颜色（特别是悬浮的金属硫化物或黑水）、浊度、气味、是否有粘液或沉淀物、流速及当日的油气水产量；

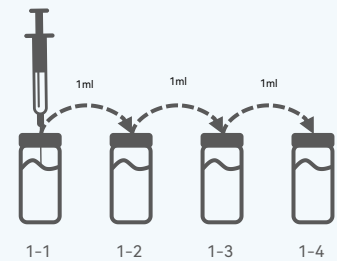


Step5: 将已采集样品的无菌袋静置（静置时间不多于1h），待油水分离后，使用测试盒中的注射器抽取1ml水样，迅速注入1-1号培养瓶，将培养瓶中液体摇匀；



1-1

Step6: 换新注射器，在1-1中缓慢匀速抽取1ml液体注入1-2中，依此类推，直到稀释至规定倍数（游离态推荐2*3，附着态和产物内推荐2*6）



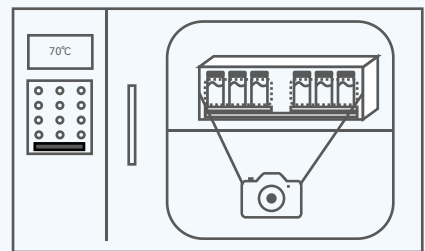
1-1

1-2

1-3

1-4

Step7: 在培养基包装盒上记录采样位置、采样时间和接种时间，将培养基放入恒温箱中（恒温箱设置温度以采样点代表设施温度为宜）。待7天、14天取出读数、并正向拍照留底。



产品清单:

1	手套	1双
2	酒精消毒片	2片
3	无菌采样袋	2个
4	无菌注射器	12支
5	高精度培养基	12瓶

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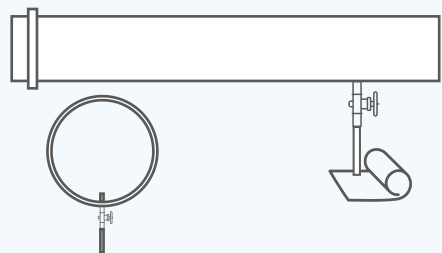
The QuarkE-MIC-PM system is based on the Most Probable Number (MPN) method and is dedicated to the rapid sampling and testing of MIC-prone microorganisms such as SRB, TGB, and FB in fluid media within equipment and facilities in marine and terrestrial oil and gas fields. This system and its user manual refer to standards such as NACE TM0194 and NACE TM0212.

User Manual:

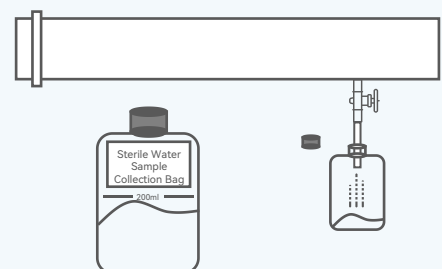
Step1: When using this test kit on-site, safety helmets, anti-static work clothes, work boots, safety glasses, earplugs, gloves, and hydrogen sulf respirators should be worn, or configured according to the on-site safety management regulations.



Step2: Select representative sampling points, for facilities such as oil and water pipelines, the sampling points should be located at the 6 o'clock position on the horizontal section. Use the disinfectant cloth in the test kit to thoroughly disinfect the exterior of the sampling point.



Step3: Open the sampling point valve and displace the sample at the sampling point for 1-3 minutes, then close the valve. Open the sterile sampling bag in the test kit, connect the bag opening to the sampling point, quickly open the sampling point valve slightly, and collect 200 ml of sample at a low flow rate, and quickly tighten the cap.





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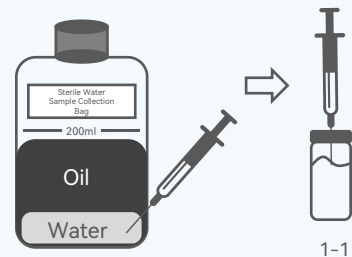
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User Manual:

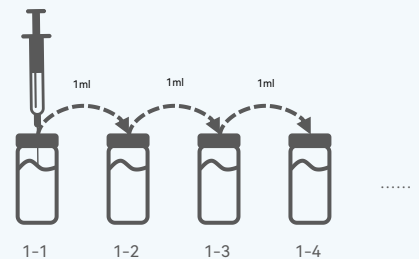
Step4: Record the sampling date, time, pressure, temperature, pH (if no data is available, it needs to be tested on-site), dissolved oxygen, 2S concentration, other water chemistry data that can be collected, sample color (especially suspended metal sulfides or black water), turbidity, odor, presence of or precipitate, flow rate, and the daily production of oil, gas, and water.



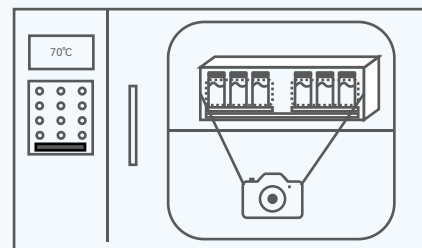
Step5: Place the sterile bag containing the collected sample at rest (resting time should not exceed 1h). After the oil and water have separated, use syringe provided in the test kit to draw 1ml of the water sample, and quickly inject it into the No. 1-1 culture bottle. Shake liquid in the culture bottle evenly.



Step6: Replace the syringe and slowly and evenly withdraw 1 ml of liquid from 1-1 and inject it into 1-2. Repeat this process, the solution is diluted to the specified multiple (for the planktonic state, it is recommended to dilute 2*3, for the attached state and the state within the corrosion products, it is recommended to dilute 2*6).



Step7: Record the sampling location, sampling time, and inoculation time on the culture medium packaging box, and place the culture medium in a constant temperature box (temperature of the constant temperature box should be set according to the temperature of the sampled equipment). Take out and read the results after 7 days and 14 days, and take positive photos for record.



Product List:

1	Gloves	1
2	Alcohol Disinfectant Tablets	2
3	Sterile Sampling Bag	2
4	Sterile Syringe	12
5	High Precision Culture Medium	12

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