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Doc No:	MSDS-SRBFRAC01
Rev No:	0
Product:	AMT Rapid Bac SRB FRAC Test
Product Code:	AMT-I-B-005

MATERIAL SAFETY DATA SHEET

1	**PRODUCT IDENTIFICATION AND INFORMATION** Product name: AMT Sulfate Reducing Bacteria Fracture Fluid Test Product code: AMT-I-B-005 Reagent Application Area: For detection of Sulfate reducing bacteria in fracture fluid
2	**INFORMATION ON INGREDIENTS AND TOXICITY DATA** Chemical components (trade secret): Yeast extract: 0.1-5%; Magnesium sulfate: 0.1-5%; Sodium sulfate: 0.1-5%; Ferrous sulfate: 0.1-5%; Sodium thiosulfate: 30-50%; Calcium chloride: 0.1-5%; Ammonium chloride: 0.1-5%; Potassium phosphate monobasic: 0.1-5%; Sodium lactate: 40-60%; Methylene blue: 0.01-0.05%. Reagents are blended together in sterile condition. These media are then lyophilized to powder and sealed within the ampoule under vacuum environment. All the components are sterile. This sealed ampoule is packed in the box containing a thick sheet of paper insert, which protects the contents during storage and transport. STANDARD PACKING: One pack contains 30 ampoules. Each ampoule contains about 0.434 g reagent.
3	**HAZARDS IDENTIFICATION** Non hazardous Non flammable Do not swallow reagent and ampoule Watch out broken glass / sharps
4	**FIRST AIS MEASURES** Skin contact: flush with plenty of water Eye contact: hold eyes open, flooding with water for at least 5 minutes. Seek medical attention if irritation. Ingestion: Rinse mouth with water. If discomfort arises, seek medical attention.
5	**FIRE FIGHTING MEASURES** Suitable Extinguishing Media: no restrictions, the product is not flammable. Unsuitable Extinguishing Media: no restrictions. Special Hazards in Fire: fire exposition with a rapid temperature rise may induce vial explosion
6	**ACCIDENTAL RELEASE MEASURES** Personal Precautions: no toxic vapors are released by accidental breakage. Avoid skin contact with the content of the vial and wear protective gloves during the manipulation of the liquids and glass fragments. Environmental Precautions: vial content and washings may be disposed through sewage according to local regulations, or sent to the waste water treatment. Methods for Cleaning: wipe the liquid. Wash the surface with water and dispose glass fragments
7	**HANDLING AND STORAGE** Handling: no special handling requirements are necessary. Avoid accidental direct contacts with vial content. Storage: Store at 2-25 ^{o}C, avoid directly light contact.

8	**EXPOSURE CONTROLS / PERSONAL PROTECTION** Specific precautions are not required.
9	**PHYSICAL & CHEMICAL PROPERTIES** Physical State: solid Color: White Odor: odorless Auto-Ignition Temp.: not flammable Water Solubility at 20 °C: soluble
10	**STABILITY & REACTIVITY** Conditions to Avoid: high temperature, direct sun light Materials to Avoid: none Hazardous Decomposition Products: none
11	**TOXICOLOGICAL INFORMATION** Acute Toxicity: no data available Chronic Toxicity: no embryo-toxic effect or carcinogenic risk in humans. Other Toxicological Information: vial content may irritate skin and eyes.
12	**ECOLOGICAL INFORMATION** Organic components are biodegradable. Mineral component do not have particular toxic effects.
13	**DISPOSAL CONSIDERATION** Not used vials: Vials ingredients are not toxic so the liquid culture medium can be disposed through sewage according to local regulations, or sent to the waste water treatment, if the expiration date is over. Empty vial can be reclaimed by simple washing with water and recycled or disposed as a non-dangerous material. Inoculated vials: If the injected liquid contains toxic ingredients, follow instruction for the disposal of such substances. Is advisable to neutralize bacteria growth eventually present in injected vials by thermal sterilization (autoclaving or one hour boiling) or by chemical sterilization (1 ml injection of bleach liquor). If thermal sterilization is used is recommended to put the vials in thermal resistant bags to avoid liquid spreading through the pierced seal during the heating.
14	**TRANSPORATION INFORMATION** None
15	**REGULATOR INFORMATION** The product is not classified as dangerous
16	**OTHER INFORMATION** Data source: NIOSH Registry of toxic effects of chemical substances. MSDS of raw materials Contact info: AMT Scientific LLC. 3916 Vero Rd., Ste. K, Halethorpe, MD 21244. admin@amtscientific.net **This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. MSDS do not represent a warranty of product properties.**