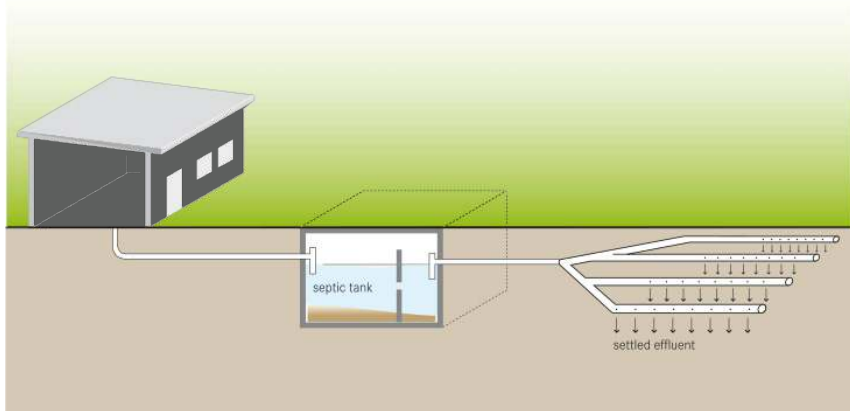


Ultra-Archaea for Septic Systems

Modern septic systems have two main components, a septic tank and a leaching field. Commercial systems may have grease traps. There are variations; such as systems with pumps and dosing schemes however the septic tank and leaching field are the primary components, that treat the waste.

The septic tank receives the wastewater from the drains and slows the velocity of the water, to allow solids heavier than water to settle and solids lighter than water to float (fats, oils and grease). Natural microbes begin changing the organic material into water-soluble fatty acids, carbon dioxide and water. Water exits the tank below the floating material and above the settling solids. The water flows to the leaching field. Sludge builds up in the septic tank and the tank must be pumped periodically; if not, scum may overflow into the leaching field.



The leaching field further treats the wastewater. If the scum layer overflows the septic tank outlet, the leaching field may quickly become fouled with fats and greases, plugging it, eventually requiring replacement.

Ultra-Archaea is the solution to keeping septic tanks and leaching fields working properly. Ultra-Archaea are naturally occurring, ancient microbes cultivated from hot springs and volcanoes. Ultra-Archaea adjust to harsh environments and efficiently convert any organic waste to beneficial water-soluble fatty acids (fertilizer), carbon dioxide and water. Fatty acids do not plug leaching fields.



Pictured is a septic tank that had not been pumped for over three years. Normally floating sludge over an inch thick would be present. The tank was only treated for one year with 1 lb. of Ultra-Archaea every month. There is very little bottom sludge. The bubbles floating on the top are soap suds. The effluent leaving the septic tank is clear indicating that the septic tank is functioning properly.

Ultra-Archaea are approved for use in septic systems by the Massachusetts Department of Environmental Protection and for use in wastewater treatment systems and grease traps by the Massachusetts Water Resources Authority.

Ultra-Archaea® Shakers



- + Ultra-Archaea are housed in a bentonite clay powder that provides the slightly moist environment needed for them to live.
- + Two sizes of shakers available for application on smaller spills or contained areas.
- + Resealable/water-proof containers keep archaea dry/dormant until they are needed.



NOTE: All Ultra-Archaea products are stamped with an expiration date and have a typical shelf life of approximately 5 years.

Ultra-Archaea® Water Soluble Packets



- + 4 oz. water soluble packets can be thrown into oil/water separators, catch basins, grease traps and other areas to facilitate oil and grease removal.
- + Small size, big results — no measuring, scooping or spreading. Simply place the entire packet into the area that needs to be cleaned. The water soluble packet will dissolve and allow the Ultra-Archaea to spread throughout the area.



5232

Ultra-Archaea® Bulk Bags



- + Bulk bags (25 lbs.) are available for large spills, open water applications or frequent use areas.
- + Keep on hand for refilling Shakers or other smaller containers or for large, unexpected spills.



5233

Ultra-Archaea® Tablets



- + Small tablets with a concentrated amount of Ultra-Archaea (20-billion per gram)
- + Great for use in septic tanks, RV blackwater tanks, small grease traps, and stormwater catch basins



5252

Ultra-Archaea Booms®

- + Specially-treated polyethylene foam used in Ultra-Archaea Booms allows it to float on the water's surface while also absorbing oil.
- + Six Ultra-Archaea tablets are inserted into slits in the foam sleeves - extended water contact causes the tablets to slowly dissolve, releasing the archaea into the water.
- + Booms can be dropped in, or tied off in catch basins (lanyards included), oil/ water separators or other areas where oily water can collect.



5234

Patents: See www.ultratechpatents.com

Part#	Description	Weight
5238	6 Ounce Shaker	6 oz (171 g)
5239	28 Ounce Shaker	28 oz (794 g)
5232	Water Soluble Packets 6-Pack	4 oz (113 g)
5233	Bulk Bag	25 lbs (11 kg)
5234	Archaea Boom (6-pack)	2.0 lbs (1.0 kg)
5252	Archaea Tablets (12-pack, 24 tablets per tube)	5 lbs (2.3 kg)

It is important to be aware that Ultra-Archaea may not be the answer or 100% effective in every application. Consult with UltraTech's technical team to determine if your needs can be met with Ultra-Archaea.