

Chemicals vs. Bacteria vs. Enzymes

What Are Chemicals, Bacteria, and Enzymes?		
CHEMICALS	BACTERIA	ENZYMES
<p>Chemicals are NOT alive. Chemicals include soaps, harsh acids and bases, solvents, and enzymes. Chemicals do not reproduce themselves.</p> <p>Chemicals can be used to imitate the attributes of bacteria or enzymes, but they are either environmentally harmful, not as efficient, or both.</p>	<p>Living cells called bacteria have the ability of digesting wastes of different types, reproducing, and actually producing enzymes.</p> <p>Bacteria produce enzymes. When the right bacteria are present in the right quantities and in the right conditions, they produce enzymes much more economically than people can manufacture them.</p>	<p>Enzymes are NOT alive. They are complex chemicals produced by bacteria. Enzymes cannot reproduce, or actually digest waste. They simply speed up chemical reactions without getting used themselves.</p> <p>However, enzymes are all proteins, and some enzymes attack proteins. Therefore, enzyme usefulness is limited by digestion from other enzymes.</p>
How Do Chemicals, Bacteria, and Enzymes?		
<p>Only very harsh chemicals can accomplish this job. Less hazardous chemicals are generally not effective. Also, chemicals have considerable toxicity issues, and are likely to harm pets, the environment, and the general health of people.</p>	<p>Bacteria digest waste materials. When bacteria digest waste, they change the waste into safe by products – such as carbon dioxide and water. When the waste materials are very complex, Caroline's Stain & Odor Remover™ bacteria actually produce enzymes to break down the complex waste into simple compounds that the Caroline's Stain & Odor Remover™ bacteria can digest.</p>	<p>Enzymes are not capable of digesting waste materials. Rather, all that they can do is change complex wastes into simple wastes. Bacteria are still needed to digest the waste material - enzymes alone will not do the job. An enzyme product only has half the tools necessary to get the job done right!</p>
Which Method is Best for the Environment?		
<p>Chemicals are often bad for the environment and they do not have the advantages that the Caroline's Stain & Odor Remover™ bacteria provide. Chemicals can be used for some stain or odor removal, but they are either not effective, not economical or environmentally unsafe.</p>	<p>Bacteria contained in Caroline's Stain & Odor Remover™ are 100% natural, safe, and non-pathogenic. Since bacteria both degrade complex waste AND digest the by-products, less pollution is discharged to the environment. Caroline's Stain & Odor Remover™ is the environmentally superior solution.</p>	<p>Enzymes are not necessarily bad for the environment, but they do not have the advantages that the Caroline's Stain & Odor Remover™ bacteria provide. Again, enzymes do not actually digest wastes; they simply break complex compounds into simpler compounds. Bacteria are still needed to finish the job. Enzymes cannot help in removing pollutants. Therefore, enzymes have limited benefits. For the complete solution, choose Caroline's Stain & Odor Remover™ over enzyme products!</p>