What Is Pasteurization?

Thermal death of pathogenic bacteria turfs are within minutes. Pasteurized milk is never boiled.

For H. pylori, streptococci points of pathogenic bacteria when temperature is held for thirty minutes.

From the Gilt-Edge plant comes a great variety of health-building dairy products. These include ice cream of many different flavors, cottage cheese, buttermilk, chocolate milk, and whipping cream. Milk drinks such as malted milks and hot chocolate are served inexpensively at the Milk Bar in the Norman, Okla.

When you hear that Gilt-Edge milk is pasteurized, does it sound like just another technical word that doesn’t mean anything to you? It is a scientific word, all right, but it has a lot of meaning for everyone who cares anything about health, and the meaning is easily explained. Pasteurization means that milk has been heated to a temperature of 142 to 145 degrees and held at that controlled temperature for a period of thirty minutes. Pasteurization, contrary to the opinion of many persons, does not mean boiling the milk. In the pasteurization process, the temperature need not go over 145 degrees, while the boiling point is 212 degrees.

Why pasteurize milk? The purpose is simply to kill any of certain disease germs that may be found in milk, germs that might cause death or serious illness. A temperature of 131 degrees kills diphtheria germs. A temperature of 134 degrees destroys streptococci. At 137 degrees, typhoid germs fold up and die. And at 139, tuberculosis germs take the count.

Of course a great deal of the milk handled by the Gilt-Edge plant is entirely pure and would be perfectly safe to drink “raw.” But scientists say, “Don’t take a chance.” The pasteurization process is simple. It removes the element of chance that always must be considered when milk is not pasteurized. The chart on the left shows the temperature levels involved in pasteurization. You are invited to visit the Gilt-Edge and see the process in actual operation.

A paper copy of this issue is available at call number LH 1 .06S6 in Bizzell Memorial Library.
Anloon's purpose in this book—and he achieves it, beautifully—is to give the general reader a love for and an understanding of the background of all the arts, through the ages. He begins with the cave-drawings of 35,000 B.C. and comes down to our own day, with way-stops at Egypt, Babylon and Chaldea; at the Athens of Pericles; amid the mysterious remains of Etruscan art; in Byzantium and medieval Russia; in the desert of the Islamiotes and the gardens of Persia; in Provence, Renaissance Italy, Rembrandt's Holland and Beethoven's Vienna. We read not merely about the towering figures—Giotto, Michelangelo, Velasquez, Wagner, Beethoven—but explore a thousand bypaths. Troubadours, minnesingers, monks, saints, bohemians, generals—all troop by in a colorful cavalcade. Always the closer relation of art to ordinary life is stressed; and always the emphasis is laid on the human beings who made that art and who have heard it, viewed it, enjoyed it, for hundreds of centuries.

The illustrations shown below are reproductions of a few of the many paintings and drawings which Hendrik Van Loon made for The Arts. A book of over 800 pages, with over 100 full-page illustrations, 48 in full color, 32 in wash—and in addition innumerable illustrative line drawings.

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