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DEPARTMENT OF AGRICULTURE
OFFICE OF THE DAIRY COMMISSIONER,

OTTAWA, June 12, 1916.

DIRECTIONS FOR USING SOLUBLE POWDERED PEPSIN AS A
SUBSTITUTE FOR RENNET.

QUANTITY TO USE.

Two drachms of Soluble Powdered Pepsin (1 to 3,000 test) are sufficient to coagulate 1,000 pounds of milk. If a suitable scale is available the required quantity may be weighed, but for convenience, and to save the expense of a scale we have devised a measure, which holds two drachms when level full, to distribute with the pepsin.

TO DISSOLVE THE PEPSIN.

Dissolve the pepsin in water in the proportion of three ounces of water for each two drachms, or measure, of pepsin, using preferably a round-bottomed cup or bowl as a container. The water must be at a temperature of 105 degrees F. When the water is added it must be stirred immediately and continuously or it will become a sticky mass very difficult to dissolve. After being thoroughly stirred it is well to pour the liquid from one vessel to another to see that there is no undissolved pepsin adhering to the vessel.

It is a good plan to add at first only enough of the water to make a creamy paste. Stir until smooth and then add the full amount of water. A few drops of hydrochloric acid added to the water helps to dissolve the pepsin.

TO USE.

Dilute the above in the same quantity of water as is used with rennet extract before adding it to the milk.

It is advisable to dissolve the pepsin at least half an hour before using.

The acidity and temperature of the milk should be the same as when rennet extract is used.

If rennet extract is available it is recommended to use half the usual quantity with half the above quantity of pepsin, mixing the pepsin solution with the rennet extract before diluting with water.

NOTES.

Scale Pepsin of the same strength (1 to 3,000) may be used according to these directions, and in the same proportion. If either Soluble Powdered Pepsin or Scale

Pepsin is of different strength the quantity used must be varied accordingly. For instance if the strength is 1 to 6,000, only half the quantity should be used.

It is sometimes found that certain milks require unusual quantities of rennet for proper coagulation and the same thing may be experienced with pepsin. Cheese-makers must use their judgment in such cases and vary the quantity accordingly. Enough pepsin should be used to effect coagulation in the same length of time as it takes with rennet, all the other conditions being equal.

CAUTION.

Great care must be observed to keep the stock of pepsin from the slightest dampness. Store in a dry place and keep tightly covered. If it gets damp it will cake and become insoluble and useless.

