

In it are found 0.35 to 1 p. ct. of fat, 1 p. ct. of casein and albumine, 5 p. ct. of sugar and from 0.65 to 1 p. ct. of ashes. It is generally very slightly acid when it leaves the cheese vat. Its acidity then varies from 0.3 to 0.4 p. ct.

Numerous experiments have shown that it is of great value as a feed for hogs when mixed with other things.

At the experimental farm of Wisconsin it was found that 760 lbs of whey are equivalent to 100 lbs of grain. Therefore when grain is worth \$12.00 per ton, whey according to this, is worth, 18 cts. per 100 lbs.

It is poor economy to feed hogs upon nothing but milk.

The food value of whey for feeding hogs is generally considered as equal to half that of skim-milk.

Whey should not be too sour when given to animals.

Whey is also used as a feed for calves, but this cannot be strongly recommended.

### SUGAR OF MILK

Lactose or sugar of milk is a very important constituent of milk, of which milk contains from 4 lbs to 6 lbs per 100 lbs.

Factories for the production of lactose have been in existence for many years. This industry first appeared in Switzerland. In 1880 the United States imported it to the amount of \$60,000 annually. Since that date establishments for the manufacture of this sugar have been put up in Germany and in the United States.

This sugar is principally employed in pharmacy and formerly was sold at from 30 cts. to 35 cts. per lb. Its general appearance is that of small white crystals.

Lactose is obtained from cheese whey. This whey is generally bought by the factories at from 4 c to 6 c and sometimes 7 c per 100 lbs for the purpose of extracting the sugar.

Formerly the whey was evaporated in vessels similar to those used in the manufacture of maple sugar; but the lactose thus obtained was not pure and was strongly discolored.

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