



Bovine colostrum: Neonate to nutraceuticals

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ABSTRACT : Colostrum is the first milk produced by mammals within a 24 to 72 hour period after parturition. Colostrum contains various proteins, carbohydrates, fats, vitamins and minerals that are essential for the diet of a developing mammalian neonate. It also includes bioactive constituents such as immunoglobulin, antimicrobial peptides and growth factors. Colostrum and fractions thereof may be useful for treatment of a variety of health conditions, including gastrointestinal disorders, respiratory tract disorders, viral and bacterial infections and tissue repair. Bovine colostrum is sold commercially as a nutraceutical products and it purports numerous health benefit. Harvested colostrum is generally dehydrated by either spray drying or freeze-drying. Dried colostrum is widely used for pharmaceuticals to improve long-term storage of unstable drugs. The various traditional colostrum products like *Kharwas*, *Kalvdans*, *posu*, *Soyi Posu*, yoghurt and commercial colostrums products like powder, Whey protein Powder, Tablets and Lozenges are also made / available in the market.

KEY WORDS : Bioactive substances, Colostrum products, Colostrum powder, Drying method

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