LOW OSMOLALITY ORAL REHYDRATION SLUSH COMPOSITION

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority to and the benefit of U.S. Provisional Patent Application No. 63/036,525, filed on June 9, 2020, the entire content of which is incorporated herein by reference.

FIELD

[0002] The present disclosure relates to oral rehydration compositions. More particularly, the present disclosure relates to a low osmolality oral rehydration slush composition and methods of using the same.

BACKGROUND

[0003] A variety of oral rehydration compositions in a variety of product forms, such as liquids, powders, and tablets, are currently available to consumers. Oral rehydration compositions assist in rehydrating an individual after there has been a substantial loss of fluid, resulting in dehydration. The dehydration may be caused by strenuous exercise, physical exertion, or sports activities, or may be caused by fever, diarrhea, vomiting, or combinations thereof.

[0004] A product form popular with children and adults alike is the frozen slush beverage, commonly referred to as a slushy, slushie, or slushee. However, typical frozen slush beverage products are not suitable for oral rehydration therapy due to the high osmolality of such frozen slush beverage products. Accordingly, there remains a need for a frozen slush beverage product that can be used to rehydrate individuals suffering from dehydration or otherwise require hydration.

SUMMARY

[0005] Disclosed herein is an oral rehydration slush composition that can be used to rehydrate individuals suffering from dehydration. The oral rehydration slush composition has a low osmolality which renders the slush composition efficacious for oral rehydration therapy.

[0005a] In one aspect, disclosed herein is an oral rehydration slush composition comprising: water; dextrose; 15 mEq/L to 120 mEq/L of sodium; 2 mEq/L to 60 mEq/L of potassium; 25 mEq/L to 110 mEq/L of chloride; and 5 mmol/L to 40 mmol/L of citrate,

wherein the oral rehydration slush composition has an osmolality of 70 mOsm/kg H_2O to 350 mOsm/kg H_2O.

[0005b] In another aspect, disclosed herein is an oral rehydration slush composition comprising: water; a source of carbohydrate; a source of electrolytes; and a source of citrate, wherein the oral rehydration slush composition has an osmolality of 70 mOsm/kg H_2O to 350 mOsm/kg H_2O.

[0005c] In another aspect, disclosed herein is a use of the oral rehydration slush composition disclosed herein in the manufacture of a medicament for the treatment of dehydration in an individual in need thereof.

[0005d] In another aspect, disclosed herein is the oral rehydration slush composition disclosed herein for use in therapy.

[0006] In accordance with the present disclosure, an oral rehydration slush composition is provided. The oral rehydration slush composition includes: water; a source of carbohydrate; a