

Title (en)

MILK REPLACER COMPRISING ANIMAL-FREE FORMULATIONS OF FAT-SOLUBLE VITAMINS

Title (de)

MILCHERSATZ MIT TIERFREIEN FORMULIERUNGEN VON FETTLÖSLICHEN VITAMINEN

Title (fr)

SUCCÉDANÉ DE LAIT COMPORTANT DES FORMULATIONS D'ORIGINE NON ANIMALE DE VITAMINES LIPOSOLUBLES

Publication

**EP 4262428 A1 20231025 (EN)**

Application

**EP 21836572 A 20211216**

Priority

- EP 20215811 A 20201218
- EP 2021086339 W 20211216

Abstract (en)

[origin: WO2022129435A1] The present invention is directed to a milk replacer comprising an animal-free formulation comprising a) Vitamin A or a C1-20 alkyl ester thereof and optionally vitamin D; b) Gum Arabic in an amount of  $\leq 25$  weight-%; c) at least one ingredient selected from modified food starches, starch hydrolysates, mono- and disaccharides; d) at least an antioxidant; e) an anti-caking agent; f) optionally an oil; g) optionally residual moisture; whereby all amounts a) to f) sum up to 100 weight-% and are based on the sum of the weight of a) to f), whereby the compound a) is encapsulated in a matrix formed by compounds b) and c). The present invention is further directed to said animal-free formulation, as well as its use in a milk replacer, especially for young non-human mammals such as calves, foals, young goats, young sheep and camel foals. Further objects of the present invention are processes for the manufacture of such animal-free formulations and such milk replacer.

IPC 8 full level

**A23K 20/163** (2016.01); **A23C 11/00** (2006.01); **A23K 20/174** (2016.01); **A23K 30/20** (2016.01); **A23K 40/10** (2016.01); **A23K 50/10** (2016.01); **A23K 50/60** (2016.01); **A23L 2/39** (2006.01); **A23L 29/25** (2016.01)

CPC (source: EP)

**A23C 11/00** (2013.01); **A23K 20/163** (2016.05); **A23K 20/174** (2016.05); **A23K 30/20** (2016.05); **A23K 40/10** (2016.05); **A23K 50/10** (2016.05); **A23K 50/60** (2016.05); **A23L 2/39** (2013.01); **A23V 2002/00** (2013.01)

Citation (search report)

See references of WO 2022129435A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022129435 A1 20220623**; CN 116669565 A 20230829; EP 4262428 A1 20231025

DOCDB simple family (application)

**EP 2021086339 W 20211216**; CN 202180083468 A 20211216; EP 21836572 A 20211216