

CALCIUM BUTYRATE



PRODUCT IN FOCUS



Calcium butyrate

INTRODUCTION

Butyrate is produced naturally in intestine and is known for health benefits it offers. Calcium butyrate is an off-white coloured calcium salt and is highly soluble in water. It is stable under normal pressure and temperature. It is used in food supplements and animal feeds. It is also used as a coloring and flavoring agent.

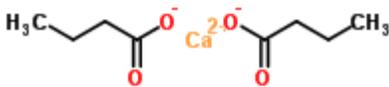
Manufacturing

Fermentation of molasses slop using yeast results into crude calcium butyrate. It is further fermented using butyric acid bacteria to form a concentrate. Pure calcium butyrate is precipitated by treatment of concentrate with calcium carbonate.

Applications

Calcium butyrate finds its applications in end-use industries such as poultry and dairy farming, animal health, and pharmaceutical.

- It is essential ingredient to protect and restore the intestinal health.
- It is energy source for the intestinal villi.
- It enhancing healthy growth of microvilli.
- It helps to increase microvilli per crypt ratio, to enhance regeneration of intestinal epithelium cells (villi) to improve nutrient digestibility as a result feed efficiency improved.
- It improves protections against pathogens (Antibacterial activity against broad G+ & G- bacteria) via simulating the intestinal immune system.
- It also used as toxin binder.

| | |
|--------------------------|--|
| Synonyms | Butanoic acid, calcium salt Calcium Dibutanoate |
| CAS no. | 5743-36-2 |
| EINECS no. | 227-265-7 |
| Molecular formula | $C_8H_{14}CaO_4$ |
| Molecular weight | 214.27 |
| Structure |  |

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EXSYN[®]
ESSENTIAL CHEMISTRY

SPECIFICATIONS

| Test | Unit | Specification |
|--------------------------|-------|------------------------------|
| Physical appearance | - | White powder |
| Assay | % | NLT 98.0 |
| pH range | - | 8.5 - 11.5 |
| Melting range | °C | Above 300 |
| Bulk density | g/mL | 0.35 - 0.45 |
| Particle Size | - | 100% passing through 40 Mesh |
| Loss on drying | % | ≤ 2.0 |
| Cadmium | ppm | ≤ 0.5 |
| Mercury | ppm | ≤ 0.1 |
| Lead | ppm | ≤ 0.5 |
| Arsenic | ppm | ≤ 0.5 |
| Residual solvent | ppm | ≤ 1000 |
| <i>Total Plate Count</i> | cfu/g | ≤ 1000 |
| <i>Yeast and Mold</i> | cfu/g | ≤ 100 |
| <i>Salmonella</i> | - | Absent per 10 gram |
| <i>E.Coli</i> | - | Absent per gram |

STORAGE

Keep in a closely tight container. Store in a cool, dry, ventilated area.

PACKING

25 kg bag/drum.

REGISTRATION / CERTIFICATION

ISO, GMP, HALAL & KOSHER.

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.