Lasalocid

Item No. 15505

CAS Registry No.: 25999-31-9
Formal Name: 6-[(3R,4S,5S,7R)-7-[(2S,3S,5S)-5-ethyl-5-[(2R,5R,6S)-5-ethyltetrahydro-5-hydroxy-6-methyl-2H-pyran-2-yl]tetrahydro-3-methyl-2-furanyl]-4-hydroxy-3,5-dimethyl-6-oxononyl]-2-hydroxy-3-methyl-benzoic acid

Synonyms: Antibiotic X 537A, Ionophore X 537A, X 537A

MF: C_{34}H_{54}O_{8}
FW: 590.8
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Lasalocid is supplied as a solid. A stock solution may be made by dissolving the lasalocid in the solvent of choice. Lasalocid is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide, which should be purged with an inert gas.

Description

Lasalocid is an ionophore antibiotic isolated from certain *Streptomyces* sp. and used in veterinary practice as a coccidiostat for gastrointestinal parasites.\(^1\) Lasalocid cytotoxicity targets cell metabolism, demonstrating EC\(_{50}\) values in the range of 7-20 μM in viability assays using chicken hepatoma LMH cells and rat myoblast L6 cells.\(^2\)

References