

## Loperamide System Suitability Mixture

Art. ID	USP-1370010
Unit	25 mg
Deliverydetails	De Minimis UN2811 III E1

### Description

This is a mixture containing loperamide hydrochloride as the major component, and minor components chlorophenylpiperidinol, deschloroloperamide, loperamide trans-N-oxide, loperamide cis-N-oxide, anhydroloperamide, loperamide piperidinolamide, loperamide biphenyl analog, loperamide quaternary salt, and other impurities

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Chlorophenylpiperidinol	4-(4-Chlorophenyl)piperidin-4-ol	[39512-49-7]	0,52	%		
Deschloroloperamide	4-(4-Hydroxy-4-phenylpiperidin-1-yl)-N,N-dimethyl-2,2-diphenylbutanamide	[37743-41-2]	0,31	%		
Loperamide Hydrochloride	Loperamide hydrochloride	[34552-83-5]	96,5	%		
Loperamide trans-N-oxide	(1r,4s)-4-(4-Chlorophenyl)-1-[4-(dimethylamino)-4-oxo-3,3-diphenylbutyl]-4-hydroxypiperidine L-oxide	[106900-12-3]	0,48	%		
Loperamide cis-N-oxide	(1s,4r)-4-(4-Chlorophenyl)-1-[4-(dimethylamino)-4-oxo-3,3-diphenylbutyl]-4-hydroxypiperidine 1-oxide	[109572-89-6]	0,39	%		
Anhydroloperamide	Dehydro Loperamide	[61299-42-1]	0,5	%		
Loperamide Piperidinolamide	1,4-Bis[4-(4-chlorophenyl)-4-hydroxypiperidin-1-yl]-2,2-diphenylbutan-1-one	[1426322-82-8]	0,61	%		
Loperamide Biphenyl analog	4-Dechloro-4-(4-chlorophenyl) Loperamide	[1391052-94-0]	0,31	%		
Loperamide Quaternary salt	(4-(4-Chlorophenyl)-1,1-bis[4-(dimethylamino)-	[n/a]	0,36	%		

4-oxo-3,3-diphenylbutyl  
]-4-hydroxypiperidin-1-  
ium chloride)