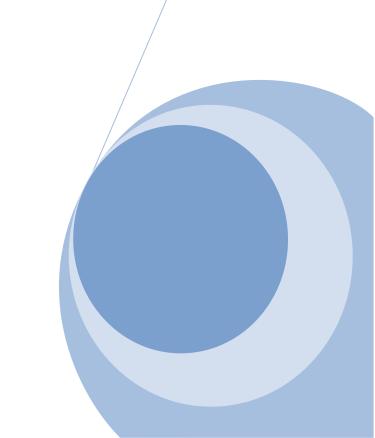




Technical Data Sheet





Metronidazole benzoate

Chemical Name:

1-(2-benzoyloxyethyl)-2-methyl-5-nitroimidazole

Trade Name:

Metronidazole benzoate

Introduction:

Metronidazole, a powerful antiprotozoal and antibacterial drug, has a bitter taste, and it is not acceptable to some young patients. Metronidazole benzoate (benzoyl Metronidazole), the benzoyl ester of metronidazole, is tasteless and has also been widely used because of its greater palatability. Metronidazole benzoate is the benzoate ester of metronidazole which is obtained by condensation of benzoic acid and metronidazole. It is hydrolyzed before or during absorption through the gut wall so that only metronidazole can be detected in the circulation.

General Applications:

Metronidazole benzoate is used in the treatment of infections in which anaerobic bacteria have been identified or are suspected as pathogens ,particularly Bacteroides, Fragilis and other species of bacteroides and including other species for which metronidazole is bactericidal e.g. Fusobacteria, Eubacteria, Clostridia and anaerobic Cocci. It can be used in septicaemia, bacteraemia, brain abscess, peritonitis and post-operative wound infectiondue to anaerobic bacteria. Itis used also in prevention of acute dental infections (e.g. acute pericoronitis and acute apical infections), Trichomonas infections, Amoebiasis and Giardiasis.



Packaging:

Packaging Type	Net weight	Gross weight	No. of drums per pallet	No. of pallets in a 20 FLC	Shelf life	IMCO Class
PE bags in PE	25 Kgs	40 Kgs	6	20	2 yrs	Non-
Drums						Imco

Safety, Handling & Storage:

Full information on the safety, handling and storage of Metronidazole is available in the corresponding Material Safety Data Sheet (MSDS).



$1\hbox{-}(2\hbox{-}benzoyloxyethyl)\hbox{-}2\hbox{-}methyl\hbox{-}5\hbox{-}nitroimidazole$

Trade Name: Metronidazole benzoate

Specification

TEST	STANDARD	Unit	Ref.
Appearance	White or slightly yellowish, crystalline powder or flakes.	_	BP 2017
Solubility	Practically insoluble in water, freely soluble in methylene	_	BP 2017
	chloride, soluble in acetone, slightly soluble in alcohol.		
Melting point	99 – 102	C°	BP 2017
IR spectra	Spectrum obtained with standard Metronidazole benzoate.	_	BP 2017
Appearance of solution	The solution is not more opalescent than reference	_	BP 2017
	suspension and not more intensely coloured than		
	reference solution		
Acidity	Max 0.25	ml NaOH	BP 2017
		0.02 M	
Related substances	—impurities A, B, C:not more than the area of the	%wt	BP 2017
	corresponding peak in the chromatogram obtained with		
	reference solution (b) (0.1 per cent)		
	-any other impurity :not more than the area of the		
	principal peak in the chromatogram obtained with		
	reference solution (a) (0.1 per cent),		
	— total: not more than twice the area of the principal		
	peak in the chromatogram obtained		
	with reference solution (a) (0.2 per cent)		
Heavy Metals	Max 20	ppm	BP 2017
Loss on drying	Max 0.5	%wt	BP 2017
Sulfated Ash	Max 0.1	%wt	BP 2017
Assay (dried substance)	98.5 – 101	%wt	BP 2017

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