

Cross-breeding Coefficient in Miniature Bull Terriers

Interbreeding has introduced Bull Terrier genes into the Miniature Bull Terrier breed genome. The Cross-breeding Coefficient can be used to calculate the % purity of a Miniature Bull Terrier which is optimally 100%.

To calculate the Cross-breeding Coefficient over a 5-generation pedigree, you can use the following matrix:

	NO. OF INTERBREDS	POINTS PER INTERBRED	NO. OF INTERBREDS X POINTS PER INTERBRED
The MBT Subject		32	
1 st Generation = 2 Parents		16	
2 nd Generation = 4 Grandparents		8	
3 rd Generation = 8 Great Grandparents		4	
4 th Generation = 16 Great-Great Grandparents		2	
5 th Generation = 32 Great-Great-Great Grandparents		1	
		TOTAL	
		÷ 64	
		X 100	% BULL TERRIER
		100 – % BULL TERRIER	% MBT

This Cross-breeding Coefficient Calculator can be modified to obtain an approximation over less generations or to measure more accurately using more generations.