

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:

X (Imported from Australia)	NO. OF INTERBREDS	POINTS PER INTERBRED	NO. OF INTERBREDS X POINTS PER INTERBRED
The MBT Subject (INTERBRED)	1	32	32
1 st Generation = 2 Parents MOTHER (INTERBRED) FATHER (SET)	1	16	16
2 nd Generation = 4 Grandparents	0	8	0
3 rd Generation = 8 Great Grandparents	0	4	0
4 th Generation = 16 Great-Great Grandparents	3	2	6
5 th Generation = 32 Great-Great-Great Grandparents	1	1	1
TOTAL			55
÷ 64			0,859375
X 100			86 % BULL TERRIER
100 - % BULL TERRIER			14 % MBT

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

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NOTE: This Cross-breeding Calculator uses interbreds only. The occurrence of Standard Bull Terriers in the pedigree can be ignored. An interbred is defined as a dog with one Standard Bull Terrier parent and one Miniature Bull Terrier parent.

Oli (import from Poland)	NO. OF INTERBREDS	POINTS PER INTERBRED	NO. OF INTERBREDS X POINTS PER INTERBRED
The MBT Subject	0	32	0
1 st Generation = 2 Parents	0	16	0
2 nd Generation = 4 Grandparents	0	8	0
3 rd Generation = 8 Great Grandparents	0	4	0
4 th Generation = 16 Great-Great Grandparents	2	2	4
5 th Generation = 32 Great-Great-Great Grandparents	2	1	2
TOTAL			6
÷ 64			0,09375
X 100			9,4 % BULL TERRIER
100 - % BULL TERRIER			90,6 % MBT

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