

Parti: Crosses, Dosage & the Untestable Bits

Dosage at MITF, the cross odds, and the parts of white that no test covers

The S locus is MITF, and it is dosage-dependent - not a clean on/off. One copy usually shows.

- SS : solid.
- Ssp : often a white flash or abstract marking (chest, toes, chin). Not a silent carrier - it is frequently telling you.
- spsp: parti, 50%+ white.

Cross outcomes

Cross	Puppies (average)
spsp x spsp	All parti.
spsp x Ssp	1 parti : 1 solid carrier (Ssp).
Ssp x Ssp	1 SS : 2 Ssp : 1 spsp (25% parti).
Ssp x SS	1 SS : 1 Ssp. No parti.
SS x SS	All solid.

- How MUCH white a parti carries is polygenic (modifiers), not set by S alone. spsp x spsp does not guarantee matched patterns.
- Ticking (R locus, USH2A) adds coloured flecks in the white and is inherited separately.

The untestable extras

Irish spotting and the proposed Whitehead modifier are NOT the piebald variant - most Irish-spotted poodles test SS. Watch head-white stacking for hearing risk. This is a working hypothesis; see the guide on the site.

READING A SOLID DOG

- A white flash on chest, toes or chin points to Ssp - confirm with a test.
- Irish-spotted but tests SS? Expected - the piebald test does not see it.
- Planning matched parti? Modifiers, not S alone, set how the white falls.

THE POODLE GENETICS LAB REFERENCE SET

E & B Loci - Merle Health Risk - Phantom Matrix - Silver & Blue - Parti Planner - Full Loci Card
Full guides, the calculator and sources at poodlegenetics.com/genetics-guide