CLAIMS

1. A Cr alloy for magnetic recording, comprising in at.%:

one or more elements selected from the group consisting of Al, Ti, Mo, W, V, and Ru in a total amount in which a value of a in Formula (1) is 2.919 Å or more and 3.037 Å or less:

$$a^3 = \Sigma(m_n A_n)/\rho N \quad (1)$$

wherein

a represents a lattice constant,

N represents the Avogadro's number,

ρ represents a calculated density (g/cm^3),

m represents the number of elements existing in a unit lattice, and

A represents an atomic weight;

0.1 to 3% in total of one or more elements selected from the group consisting of B, C, P, Si, and Sn; and

the balance Cr and unavoidable impurities.

2. A sputtering target material comprising the alloy according to claim 1.

3. A perpendicular magnetic recording medium, using the alloy according to claim 1 or 2.