



Unistel Medical Laboratories

Genetic Report

Aggrecan Chondrodysplasia-Like Dwarfism



Report

Created: 2026-06-25



Name: LITTLE FOREST MISS MONEY PENNY

Registration ID:

Date of birth: 2025-11-04

Gender: Female

Breed: S.A. Miniature Horse

Laboratory number: 261110H002

Client name: Ingrid Klug Wynnholme Stud

TEST DESCRIPTION

Chondrodysplasia-like dwarfism (ACAN dwarfism) is a recessive genetic disorder characterised by extreme reduction in size, as well as conformational abnormalities, such as globular heads, a shortened torso/ neck, enlarged joints, bowed fore legs, a cleft palate and underbite. In miniature horses, the condition has been causatively linked with four different mutations in the Aggrecan (ACAN) gene. The first, ACAN02(D1), is a single base pair deletion, and is lethal when homozygous, or in combination with any of the other mutations. Combinations of the ACAN06 (D2), ACAN07(D3*) or ACAN15 (D4) mutations are generally not lethal, but will produce dwarf foals. As carriers of any of these mutations would appear phenotypically normal, it is important to test breeding stock to avoid pairings that might result in either a dwarf, or an aborted foetus.

TEST RESULT:

D1
CLEAR

D2
CLEAR

D3*
CLEAR

D4
CLEAR

BREEDING IMPLICATIONS OF TEST RESULT:

This horse has two copies of the normal allele for the D1, D2, D3* and D4 ACAN loci and will neither develop nor pass on the specified ACAN mutations to its offspring.

Disclaimer: Unistel reports these results on the premise that the biological samples received are from the individuals nominated by the owner/breeder/requestee. This certificate replaces all previous issued certificates. While every effort is made to prevent incorrect results, Unistel Medical Laboratories does not accept any responsibility for any losses that may occur as a result of human or technical error. Should gross negligence be proven, the claim shall not exceed the value of the contract.

Report Date: 17-Jul-2026 08:57

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Directors: HC Viljoen (Chairman), L Theart (CEO), B Grindlay-Whieldon, M Senekal, HJ Pearce
Unistel Medical Laboratories (Pty) Ltd (Reg.No:- 1998/021075/07)

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