

# Breeding a new Napiergrass (*Pennisetum purpureum*) variety Taisu No.6 (NPcv.TS6) <sup>(1)</sup>

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## Abstract

Napiergrass (*Pennisetum purpureum*) line 7768 is one of the progeny of Tift85 DB (pearl millet) crossed with the line Mott of napiergrass. Those were based on a series of test, including progeny selections, regional yield trial, culture management trials and animal feeding trials. Results showed that 7768 possessed more crude protein (12.0% vs. 10.8%) and less of acid detergent fiber (31.8% vs. 33.2%) and neutral detergent fiber (60.7 vs. 60.9%) compared with check NPcv.TS3. In the regional yield trials, the average hay production of line 7768 was 130.2 ton/ha/year lower than that of NPcv.TS3. No significant difference between line 7768 and NPcv.TS3 on *in vitro* dry matter digestibility (IVDMD) value. There was also significant difference of hay feeding trial and parameters of blood analysis between feed with Timothy grass (*Phleum pratense*) and line 7768 by rabbits. Line 7768 was renamed as Napiergrass Taisu No.6 (NPcv.TS6) in 2015.

Key words: *Pennisetum purpureum*, NPcv.TS6, Breeding, New variety.

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