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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 19166-2026

Replacing GB/T 19166-2003

**Livestock and poultry breeds (synthetic lines) - Chinese
Simmental cattle**

畜禽品种（配套系） 中国西门塔尔牛

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Table of Contents

- 1 Scope
- 3 Terms and Definitions
- 6 Production performance
- 6.4 Reproductive performance
- 7 Rating
- 8 Production performance testing methods

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 19166-2003 "Simmental Cattle of China". Compared with GB/T 19166-2003, the main differences are structural adjustments and revisions. Aside from the logical changes, the main technical changes are as follows:

- a) All terms have been removed (see Chapter 3 of the.2003 edition);
- b) Added information on variety origin and characteristics (see Chapter 4);
- c) Changes were made to body shape and appearance (see Chapter 5, 4.1 in the.2003 edition);
- d) Body size and weight data have been revised (see 6.1, 4.2.5 of the.2003 edition);
- e) Changes were made to milk production performance, meat production performance, and reproductive performance (see 6.2, 6.3, and 6.4; 4.2.1, 4.2.2, 4.2.4, and 4.2.4 in the.2003 edition). 4.3);
- f) Changes were made to the assessment of body shape, weight, milk yield, and overall cow evaluation (see Chapter 7, 5.1, 4.2.3, 4.2.1 of the.2003 edition). 5.3.1);
- g) Added production performance testing methods (see Chapter 8);
- h) The requirements for pedigree breeding value, bull evaluation, and calf evaluation have been removed (see sections 5.2, 5.3.2, and

1 Scope

GB/T 19166-2026 is the Chinese national standard covering the Chinese Simmental - a dual-purpose breed developed over decades by crossing imported Simmental onto local cattle, and now one of the country's main beef and milk populations. The standard fixes the appearance and markings, the body measurements by age and sex, the growth and production performance and the requirements for a registered animal. It replaces GB/T 19166-2003 and has been in force since 1 September 2026. It was issued on 27 February 2026 and has been in force since 1 September 2026, replacing GB/T 19166-2003. The document is under the responsibility of the Ministry of Agriculture and Rural Affairs. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the basic requirements for the breed origin and characteristics, conformation, production performance, and grading of Simmental cattle in China. The method for measuring production performance is described. This document applies to the breed identification and grading of Simmental cattle in China.

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4.Variety Origin and Characteristics Chinese Simmental cattle were developed through progressive crossbreeding and continuous selective breeding between imported dual-purpose (dairy and beef) Simmental cattle and local yellow cattle. Dual-purpose (dairy and beef) cattle breeds have good milk and meat production performance, strong adaptability, and wide distribution.

5.Physical appearance Its coat is a mix of red (yellow) and white, with mottled patterns. The head is predominantly white, while the limbs, abdomen, and tail tip are all white, exhibiting a "four-white" characteristic; most of the body... Bulls have horns; their bodies are broad and deep, with well-developed muscles. Bulls have withers and well-developed dewlaps; cows have a slender build, well-developed udders, and prominent milk veins. See Appendix A for the physical characteristics of cattle and cows.

6 Production performance

6.1 Body measurements and weight The average birth weight of bulls is

5.7 kg, and that of cows is

4.7 kg. The body measurements and weights of bulls and cows at different ages should conform to... Requirements in Table 1.

6.2 Milk production performance Under normal management conditions, the milk yield, milk fat percentage, and milk protein percentage of adult cows at different parities during 305 days of lactation should meet the requirements of Table 2.

6.3 Meat production performance Under moderate nutritional conditions, bulls fattened for 180 days to 18 months of age had a daily weight gain of

0.1 kg and a pre-slaughter live weight of 573.6 kg $\pm$ The weight was

69.9 kg, the carcass weight was 346.5 kg $\pm$

38.2 kg, the dressing percentage was (60.4 $\pm$ 4.9)%, and the net meat percentage was (52.0 $\pm$ 5.6)%.

6.4 Reproductive performance

6.4.1 Bulls aged 12 to 15 months can have their semen collected, and the quality of frozen semen should meet the requirements of GB 4143.

6.4.2 The age of first mating for cows is 15 to 18 months, the estrous cycle is 18 to 21 days, and the gestation period is 282 to 290 days.

7 Rating

7.1 Assessment of Body Shape and Appearance Score body shape and appearance according to Table 3, and grade body shape and appearance according to Table 4.

7.2 Weight Assessment Weight class assessment shall be conducted according to Table 5.

7.3 Milk Yield Assessment The milk production grade was determined according to Table 6 after 305 days.

7.4 Comprehensive Assessment of Cows The comprehensive evaluation of cows was conducted according to Table 7.

8 Production performance testing methods

8.1 Body size, weight, meat production performance and reproductive performance shall be determined in accordance with the provisions of GB/T 43838.

8.2 Milk production performance testing is performed according to NY/T 1450. GB/T 19166-2026. Livestock and Poultry Breeds (Strains) - Chinese Simmental Cattle ICS

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