Table S1. Demographic data.

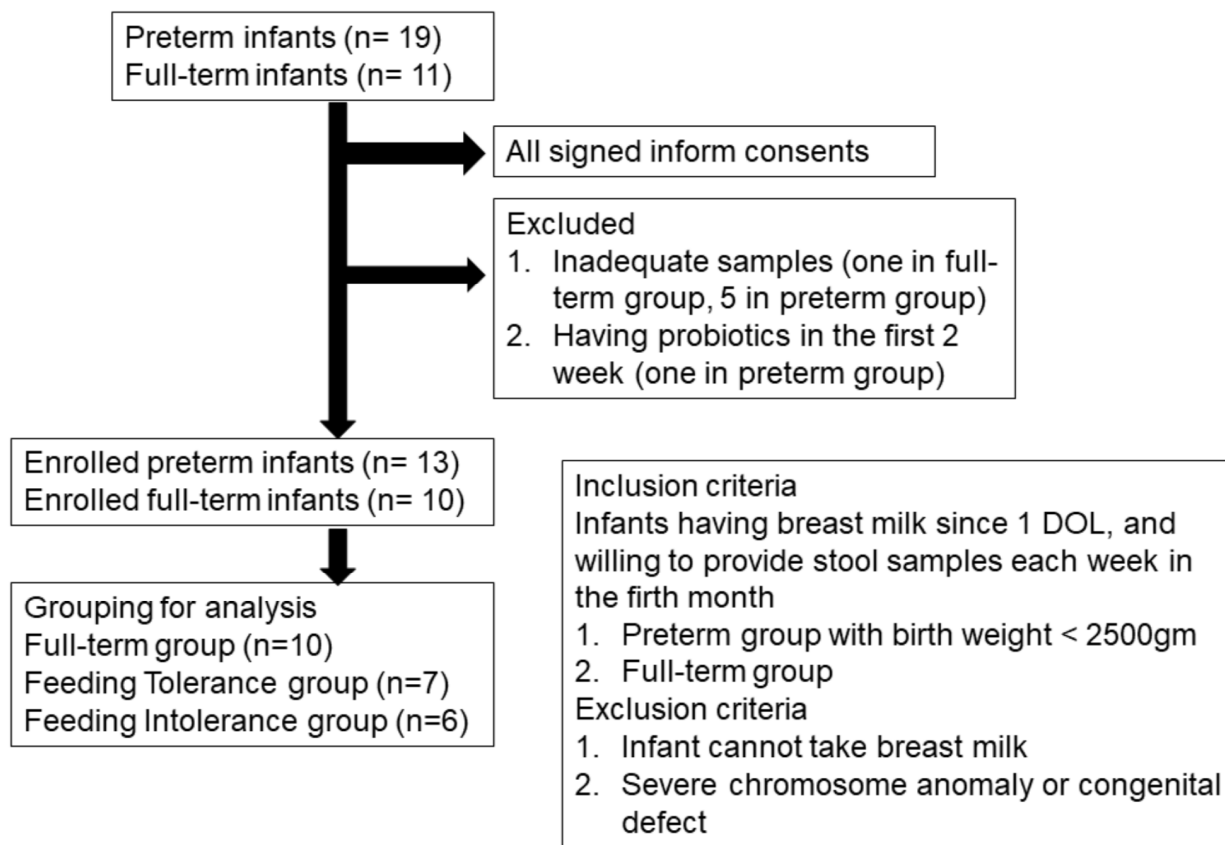| characteristics	Full-term infants (n=10)	Preterm infants (n=13)		
		Feeding tolerance (FT) group (n=7)	Feeding intolerance (FI) group (n=6)	P value
Infant characteristics	Median (Minimum, Maximum) or n			
Gestational Age (week)	38.07 (37, 40.29)	32.0 (30.0, 35.42)	29.14 (27.57, 32)	0.192
Birth Weight (gm)	3170 (2628, 3450)	1680 (1250, 2290)	1215 (1020, 1710)	0.592
Antibiotic Day[a]	0	3 (3, 7)	8.5 (3, 14)	0.029*
NEC	0	0	0	
Blood ABG[b]	N/A	7.347 (7.24, 7.51)	7.362 (7.32, 7.42)	1.00
Type of Delivery				
Spontaneous Delivery	7	2	1	1.00
C section	3	5	5	
Mother characteristics	Median (Minimum, Maximum) or n			
GDM	0	1	1	1.00
PPROM	0	3	4	0.592
BMI	26.19 (21.72, 31.79)	26.36 (21.87, 31.89)	23.89 (22.2, 30.48)	0.592
Antibiotic Day[c]	0	0 (0, 9)	0 (0, 9)	0.559

a. The duration of antibiotic usage in the first 14 day of life
b. The first blood sampling after birth
c. The duration of antibiotic usage in mother admission history 14 days prior to birth
d. NEC = necrotizing enterocolitis, ABG = arterial blood gas, N/A=Not Applicable, GDM = gestational diabetes mellitus, PPROM= preterm premature rupture of membrane; BMI= body mass index

Figure S1. Flow chart of participants recruitment.

Table S2. Absolute abundance of Moraxellaceae in full-term and preterm group.

	Full-term (n=10)	Preterm (n=13)
Total read	2026599	2498519
Moraxellaceae	1845	83953