

Supplementary Table 1. Yeast and *Prototheca* species isolated from bulk tank milk (Year-Month)

Year- Month	2020- Apr	2020- May	2020- Jun	2020- Jul	2020- Aug	2020- Sep	2020- Oct	2020- Nov	2020- Dec	2021- Jan	2021- Feb	2021- Mar	Total
Pk	1	2	2	3	10	12	12	9	12	8	12	14	97
Pb	3	6	4	5	11	8	9	8	9	11	8	10	92
Km	2	0	1	0	1	0	2	2	5	3	7	5	28
Ca	0	0	0	0	1	0	0	0	4	6	5	5	21
Cp	0	1	1	0	4	4	3	0	0	0	0	0	13
Pc	0	0	0	0	0	1	0	0	2	2	6	1	12
Ci	3	0	0	0	0	0	0	0	0	0	0	0	3
Ct	0	0	0	0	0	0	0	0	0	0	0	2	2
Cl	0	0	0	0	0	0	0	0	1	0	0	0	1
Cj	0	0	0	0	0	1	1	0	0	0	0	0	2
Dc	0	0	0	0	0	0	0	0	0	0	2	0	2
G	0	0	0	0	0	0	0	1	0	0	0	0	1
Pm	0	0	0	0	0	0	0	1	0	0	0	0	1
Yl	0	0	0	0	0	0	0	0	0	1	0	0	1
N.D.	0	1	3	1	1	0	0	2	3	0	0	0	11
Total	9	10	11	9	28	26	27	23	36	31	40	37	287

Species: Pk, *Pichia kudriavzevii*; Pb, *Prototheca bovis*; Km, *Kluyveromyces marxianus*; Ca, *Candida akabanensis*; Cp, *Candida parapsilosis*; Pc, *Pichia cactophila*; Ci, *Candida inconspicua*; Ct, *Candida tropicalis*; Cl, *Candida lucitaniae*; Cj, *Cyberlindnera jadinii*; Dc, *Diutina catenulata*; G, *Geotrichum* sp.; Pm, *Pichia manshurica*; Yl, *Yarrowia lipolytica*; N.D., not determined

Supplementary Table 2. Yeast and *Prototheca* species isolated from bulk tank milk (Farm)

Farm	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	Others [†]	Total
Pk	0	0	0	0	0	16	14	12	7	6	0	0	1	3	2	0	1	3	0	32	97
Pb	21	12	13	7	6	0	0	0	0	0	0	0	3	2	0	3	3	0	1	21	92
Km	6	7	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	1	0	10	28
Ca	0	0	0	0	0	0	0	0	0	3	0	0	0	3	4	0	0	0	0	11	21
Cp	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	2	7	13
Pc	0	0	0	0	0	0	0	0	0	0	8	1	1	0	0	0	0	0	0	2	12
Ci	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Ct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Cl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Cj	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2
Dc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pm	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Yl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
N.D.	0	0	0	0	1	1	0	1	0	0	0	0	2	0	0	0	1	0	1	4	11
Total	27	20	13	7	7	18	14	13	7	9	8	9	9	8	6	5	5	4	4	98	287

[†]Others include 56 farms from which three or fewer isolates were derived.

Species: Pk, *Pichia kudriavzevii*; Pb, *Prototheca bovis*; Km, *Kluyveromyces marxianus*; Ca, *Candida akabanensis*; Cp, *Candida parapsilosis*; Pc, *Pichia cactophila*; Ci, *Candida inconspicua*; Ct, *Candida tropicalis*; Cl, *Candida lucitaniae*; Cj, *Cyberlindnera jadinii*; Dc, *Diutina catenulata*; G, *Geotrichum* sp.; Pm, *Pichia manshurica*; Yl, *Yarrowia lipolytica*; N.D., not determined