

Table (2): Comparison between total count, percentage of total count and occurrence remarks of microorganisms genera and species isolated on casein agar, malt glucose peptone yeast extract agar (MGPYE), Czapek's-glucose agar and Soya flour agar media isolated from 20 fine wheat bran samples at 28 ±2°C

Genera and species	Casein agar medium			Malt glucose peptone yeast extract agar medium			Czapek's-glucose agar medium			Soya flour agar medium		
	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR
Gross total count	18825	100%		40225	100		19100	100		27375	100	
<i>Streptomyces</i>	1175	6.2	M	375	0.93	L	225	1.17	L	475	1.7	M
<i>S. albidoflavus</i>	00	00	00	50	0.12	R	00	00	00	00	00	00
<i>S. albus</i>	975	5.1	M	300	0.74	L	225	1.17	L	375	1.3	L
<i>S. fradiae</i>	150	0.79	R	00	00	00	00	00	00	00	00	00
<i>S. griseus</i>	00	00	00	25	0.06	R	00	00	00	50	0.18	R
<i>S. lydicus</i>	50	0.26	R	00	00	00	00	00	00	00	00	00
<i>S. smyrnaeus</i>	00	00	00	00	00	00	00	00	00	50	0.18	R
Fungi	16550	87.9	H	28125	69.9	H	17375	90.9	H	21800	79.6	H
<i>Absidia corymbifera</i>	00	00	00	125	0.31	L	00	00	00	00	00	00
<i>Acremonia rutilum</i>	300	1.59	R	50	0.12	R	00	00	00	50	0.18	R
<i>Alternaria alternata</i>	00	00	00	50	0.12	R	00	00	00	50	0.18	R
<i>Actinomucor repens</i>	00	00	00	250	0.62	L	50	0.26	R	00	00	00
<i>Aspergillus</i>	13150	69.8	H	24800	61.6	H	14575	76.3	H	15175	55.4	H
<i>A. amstelodami</i>	25	0.13	R	00	00	00	00	00	00	00	00	00
<i>A. aenus</i>	25	0.13	R	00	00	00	00	00	00	00	00	00
<i>A. awamori</i>	100	0.92	R	275	0.68	L	00	00	00	00	00	00
<i>A. candidus</i>	175	1.0	L	375	0.93	L	100	0.52	L	250	0.91	L
<i>A. carbonarius</i>	00	00	00	00	00	00	75	0.39	R	00	00	00
<i>A. chevilieri</i>	00	00	00	00	00	00	25	0.13	R	25	0.09	R
<i>A. eburneo-cremeus</i>	50	0.26	R	00	00	00	00	00	00	25	0.09	R
<i>A. foetidus</i>	00	00	00	375	0.93	R	00	00	00	00	00	00
<i>A. ficuum</i>	425	2.2	R	1050	2.6	M	1200	6.2	H	1400	5.1	M

Table (2): Continued

Genera and species	Casein agar medium			Malt glucose peptone yeast extract agar medium			Czapek's-glucose agar medium			Soya flour agar medium		
	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR
<i>A. flavor-furcatis</i>	00	00	00	275	0.68	L	750	3.9	L	00	00	00
<i>A. flavus</i>	3775	20.0	M	3600	8.9	H	2500	13.0	M	625	2.2	M
<i>A. flavus</i> var. <i>columinaris</i>	1100	5.8	L	1725	4.2	L	2225	11.6	M	700	2.5	L
<i>A.fumigatus</i>	2125	11.2	H	8075	20.0	H	3125	16.3	H	3125	11.4	H
<i>A.fumigatus</i> var. <i>ellipticus</i>	4775	25.3	H	6825	16.9	M	3350	17.5	H	7575	27.6	H
<i>A. japonicas</i>	00	00	00	375	0.93	R	00	00	00	75	0.27	R
<i>A. nidulans</i>	25	0.13	R	50	0.12	R	00	00	00	00	00	00
<i>A. niger</i>	175	0.92	R	750	1.8	H	525	2.7	M	825	3.0	M
<i>A. ochraceus</i>	00	00	00	75	0.18	R	00	00	00	00	00	00
<i>A.parasiticus</i>	00	00	00	125	0.3	L	150	0.78	R	25	0.09	R
<i>A. phoenicis</i>	175	0.92	R	150	0.37	L	00	00	00	200	0.73	R
<i>A. sulphureus</i>	00	00	00	00	00	00	25	0.13	R	50	0.18	R
<i>A. silvaticus</i>	00	00	00	25	0.06	R	00	00	00	00	00	00
<i>A. sydowii</i>	00	00	00	50	0.12	R	00	00	00	00	00	00
<i>A. terreus</i>	175	0.92	L	625	1.5	L	500	2.6	M	225	0.82	R
<i>A. tubingensis</i>	25	0.13	R	00	00	00	00	00	00	00	00	00
<i>A. versicolor</i>	00	00	00	00	00	00	25	0.13	R	50	0.18	R
<i>Chaetomium globosum</i>	25	0.13	R	50	0.12	R	25	0.13	R	00	00	00
<i>Cladosporium cladosporioides</i>	00	00	00	250	0.62	R	00	00	00	50	0.18	R
<i>Cunninghamella elegans</i>	00	00	00	00	00	00	00	00	00	25	0.09	R
<i>Curvularia lunata</i>	00	00	00	00	00	00	25	0.13	R	00	00	00
<i>Geosmitha lavendula</i>	25	0.13	R	00	00	00	00	00	00	00	00	00
<i>Geotrichum candidum</i>	00	00	00	00	00	00	100	0.39	R	175	0.64	R
<i>Mucor</i>	2500	13.2	H	1200	2.98	H	800	4.18	M	2150	7.8	H

Table (2): Continued

Genera and species	Casein medium			Malt glucose peptone yeast extract medium			Czapek's-glucose medium			Soya flour medium		
	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR
<i>M. circinelloides</i>	400	2.1	L	1200	2.89	H	475	2.48	M	1800	6.5	M
<i>M. hemalis</i>	425	2.2	L	00	00	00	00	00	00	275	1.0	L
<i>M. racemosus</i>	1650	8.7	L	00	00	00	325	1.7	L	75	0.27	R
<i>Paecilomyces variottii</i>	00	00	00	00	00	00	25	0.13	R	00	00	00
<i>Penicillium</i>	350	1.85	L	150	0.37	L	950	4.97	L	525	1.9	M
<i>P. cyclopium</i>	150	0.79	R	00	00	00	300	1.57	R	50	0.18	R
<i>P. chrysogenum</i>	00	00	00	00	00	00	00	00	00	125	0.45	R
<i>P. digitatum</i>	25	0.13	R	50	0.12	R	75	0.39	R	75	0.27	R
<i>P. expansum</i>	00	00	00	100	0.24	R	250	1.3	R	125	0.45	R
<i>P. oxalicum</i>	00	00	00	00	00	00	325	1.7	R	00	00	00
<i>P. palitans</i>	175	0.92	R	00	00	00	00	00	00	00	00	00
<i>P. viridicatum</i>	00	00	00	00	00	00	00	00	00	150	0.45	R
<i>Phycomyces nilens</i>	00	00	00	300	0.74	R	25	0.13	R	00	00	00
<i>Rhizopus stolonifer</i>	00	00	00	475	1.18	M	350	1.8	L	750	2.7	L
<i>Scopulariopsis brevicaulis</i>	00	00	00	00	00	00	00	00	00	50	0.18	R
<i>Spicaria elegans</i>	00	00	00	175	0.43	R	00	00	00	2250	8.2	R
<i>Syncephalastrum racemosus</i>	00	00	00	100	0.24	R	25	0.13	R	00	00	00

Table (2): Continued

Genera and species	Casein agar medium			Malt glucose peptone yeast extract agar medium			Czapek's-glucose Agar medium			Soya flour agar medium		
	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR	Average total Count (colonies/g)	% total count	OR
<i>Talaromyces</i>	200	1.06	M	100	0.24	L	425	2.2	L	575	2.1	L
<i>T. purpurogenum</i>	00	00	00	00	00	00	25	0.13	R	50	0.18	R
<i>T. funiculosus</i>	25	0.13	R	75	0.18	L	25	0.13	R	200	0.73	R
<i>T. ducleuxii</i>	150	0.79	L	25	0.06	R	375	1.9	L	325	1.19	L
<i>T. luteus</i>	25	0.13	R	00	00	00	00	00	00	00	00	00
<i>Verticillium terrestre</i>	00	00	00	50	0.12	R	00	00	00	00	00	00
Yeast	1100	5.9	L	11575	29.1	H	1500	7.8	L	5100	18.6	H
<i>Brettanomyces acidodurans</i>	00	00	00	150	0.37	R	00	00	00	00	00	00
<i>Candida</i>	00	00	00	2850	7.0	M	00	00	00	175	0.64	L
<i>C. albicans</i>	00	00	00	50	0.12	7	00	00	00	125	0.45	R
<i>C. glabrata</i>	00	00	00	1450	3.6	L	00	00	00	50	0.18	R
<i>C. tropicalis</i>	00	00	00	1350	3.3	L	00	00	00	00	00	00
<i>Pichia fermentans</i>	00	00	00	00	00	00	00	00	00	75	0.27	R
<i>Metschnikowia peoriensis</i>	75	0.39	R	550	1.3	L	00	00	00	25	0.09	R
<i>Sacchromyces</i>	875	4.7	R	3600	8.9	M	725	3.79	R	2525	9.2	M
<i>S.bayanus</i>	875	4.7	R	1150	2.8	L	725	3.79	R	1150	4.2	L
<i>S. cerevisiae</i>	00	00	00	2450	6.0	L	00	00	00	800	2.9	L
<i>S. uvarum</i>	00	00	00	00	00	00	00	00	00	575	2.1	R
<i>Rhodotorula glutinis</i>	150	0.79	R	150	0.37	R	300	1.57	R	175	0.64	L

Table (2): Continued

Genera and species	Casein agar medium			Malt glucose peptone yeast extract agar medium			Czapek's-glucose Agar medium			Soya flour agar medium		
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<i>Trichosporon</i>	00	00	00	1350	3.3	M	475	2.4	L	1375	5.0	M
<i>T. asahii</i>	00	00	00	775	1.9	L	475	2.4	L	1075	3.9	L
<i>T. asteroides</i>	00	00	00	125	0.3	R	00	00	00	00	00	00
<i>T. cutaneum</i>	00	00	00	450	1.1	R	00	00	00	300	1.09	R
<i>Zygosacchromyces bailli</i>	00	00	00	3075	7.6	M	00	00	00	750	2.7	R

Occurrence Remark (OR):

H = High occurrence; more than 10 cases out of 20 tested

M = Moderated occurrence; between 6 – 10 cases

L = Low occurrence; 3-5 cases

R = rare occurrence; Less than 3 cases

