

Table 1: Empirical levels (%) of the test statistics C_{mm} , C_{ml} , C_{eql} , C_{deql} , lrt , $anv1$, $anv2$, $\tilde{\chi}_a^2$, $\tilde{\chi}_d^2$, and $\tilde{\chi}_0^2$ based on 10,000 replications for data generated from negative binomial distribution with $n_1 = n_2 = 20$ for $k = 2$ groups and $\alpha = 5\%$.

		$n_1 = n_2 = 20$											
$\mu_1 = \mu_2$	ψ_1	ψ_2	C_{mm}	C_{ml}	C_{eql}	C_{deql}	lrt	$anv1$	$anv2$	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$	
1	0.1	0.2	5.41	1.77	1.63	1.85	22.44	29.29	0.17	4.52	4.54	3.23	
		0.3	5.37	1.90	1.81	1.99	23.07	32.32	0.21	4.60	4.63	3.31	
		0.4	5.39	1.86	1.76	1.96	23.66	34.48	0.22	4.65	4.62	3.42	
		0.5	5.55	1.87	1.70	1.97	23.71	35.64	0.37	4.76	4.74	3.48	
	0.2	0.3	5.37	1.87	1.76	2.01	22.83	34.64	0.25	4.63	4.72	3.33	
		0.4	5.50	1.91	1.77	2.07	23.32	36.63	0.26	4.83	4.84	3.50	
		0.5	5.61	1.98	1.73	2.09	23.40	37.91	0.49	4.91	4.87	3.47	
	5	0.1	0.2	6.05	4.53	4.50	4.51	51.63	67.71	4.36	5.65	5.55	4.48
			0.3	6.36	4.47	4.43	4.46	52.72	71.44	9.40	5.99	5.85	4.66
			0.4	6.74	4.59	4.55	4.59	52.70	75.23	16.55	6.19	5.98	5.03
			0.5	7.03	4.62	4.56	4.68	53.17	77.49	24.89	6.54	6.36	5.41
		0.2	0.3	6.56	4.78	4.75	4.81	51.30	70.46	6.41	6.18	5.90	4.98
0.4			6.63	4.77	4.71	4.78	51.75	72.67	11.23	6.28	6.02	5.12	
0.5			6.77	4.70	4.59	4.73	52.26	76.06	17.15	6.48	6.21	5.15	
10		0.1	0.2	6.68	4.82	4.83	4.82	63.25	81.34	20.26	6.20	6.12	4.86
			0.3	6.99	5.02	4.99	5.01	63.51	86.65	38.66	6.57	6.32	5.25
			0.4	7.33	4.93	4.88	4.93	64.53	91.28	55.90	6.81	6.63	5.47
			0.5	7.39	4.67	4.64	4.68	64.63	93.73	69.65	6.72	6.55	5.39
		0.2	0.3	6.83	5.18	5.15	5.17	62.14	69.77	18.17	6.54	6.38	5.26
	0.4		6.98	5.01	4.96	5.03	63.16	76.30	30.44	6.69	6.38	5.23	
	0.5		7.48	5.08	5.03	5.11	63.49	83.05	44.46	7.03	6.81	5.60	

Table 2: Empirical levels (%) of the test statistics C_{mm} , C_{ml} , C_{eql} , C_{deql} , lrt , $anv1$, $anv2$, $\tilde{\chi}_a^2$, $\tilde{\chi}_d^2$, and $\tilde{\chi}_0^2$ based on 10,000 replications for data generated from negative binomial distribution with $n_1 = n_2 = 30$ for $k = 2$ groups and $\alpha = 5\%$.

			$n_1 = n_2 = 30$										
$\mu_1 = \mu_2$	ψ_1	ψ_2	C_{mm}	C_{ml}	C_{eql}	C_{deql}	lrt	$anv1$	$anv2$	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$	
1	0.1	0.2	5.14	3.07	3.02	3.19	22.94	35.69	0.25	4.48	4.63	3.69	
		0.3	5.24	3.20	3.07	3.29	23.43	38.71	0.33	4.57	4.56	3.69	
		0.4	5.33	3.26	3.13	3.36	23.48	41.32	0.38	4.69	4.68	3.79	
		0.5	5.36	3.17	3.07	3.31	23.60	42.68	0.60	4.87	4.86	4.04	
	0.2	0.3	5.31	3.28	3.20	3.39	22.44	43.45	0.38	4.68	4.60	3.78	
		0.4	5.33	3.18	3.09	3.25	22.92	45.81	0.46	4.71	4.68	3.96	
		0.5	5.25	2.97	2.90	3.13	23.23	46.99	0.72	4.66	4.68	3.98	
	5	0.1	0.2	5.71	4.55	4.51	4.55	51.75	76.41	6.82	5.30	5.24	4.57
			0.3	5.78	4.44	4.41	4.46	52.34	80.36	16.16	5.28	5.15	4.43
			0.4	6.15	4.45	4.42	4.45	52.87	84.13	28.44	5.58	5.42	4.76
			0.5	6.16	4.37	4.33	4.40	53.52	86.44	41.69	5.64	5.51	4.92
		0.2	0.3	5.81	4.47	4.45	4.49	50.72	74.26	8.92	5.42	5.27	4.65
0.4			5.91	4.51	4.49	4.52	51.22	77.51	16.65	5.54	5.39	4.78	
0.5			5.99	4.58	4.54	4.59	51.68	83.02	26.58	5.64	5.50	4.92	
10		0.1	0.2	6.34	4.97	4.91	4.93	63.08	86.80	29.00	5.89	5.88	5.03
			0.3	5.98	4.45	4.42	4.44	63.17	93.62	55.16	5.43	5.35	4.63
			0.4	6.03	4.34	4.35	4.38	63.32	97.17	74.16	5.26	5.20	4.62
			0.5	5.82	4.13	4.08	4.16	63.73	98.15	86.37	5.08	5.08	4.38
		0.2	0.3	5.72	4.44	4.42	4.43	61.58	71.54	22.11	5.41	5.30	4.59
	0.4		6.33	4.85	4.86	4.85	61.76	81.62	39.43	5.89	5.75	5.14	
	0.5		6.32	4.51	4.50	4.54	62.93	89.75	57.34	5.74	5.58	4.96	

Table 3: Empirical levels (%) of the test statistics C_{mm} , C_{ml} , C_{eql} , C_{deql} , lrt , $anv1$, $anv2$, $\tilde{\chi}_a^2$, $\tilde{\chi}_d^2$, and $\tilde{\chi}_0^2$ based on 10,000 replications for data generated from negative binomial distribution with $n_1 = n_2 = 50$ for $k = 2$ groups and $\alpha = 5\%$.

			$n_1 = n_2 = 50$										
$\mu_1 = \mu_2$	ψ_1	ψ_2	C_{mm}	C_{ml}	C_{eql}	C_{deql}	lrt	$anv1$	$anv2$	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$	
1	0.1	0.2	5.72	4.62	4.56	4.68	23.28	43.35	0.21	5.29	5.33	4.85	
		0.3	5.87	4.68	4.60	4.69	24.18	47.45	0.25	5.41	5.36	4.87	
		0.4	5.81	4.68	4.56	4.75	23.92	51.28	0.41	5.43	5.40	4.85	
		0.5	5.85	4.68	4.55	4.79	24.41	52.88	0.62	5.52	5.40	4.86	
	0.2	0.3	5.71	4.49	4.44	4.56	23.47	55.60	0.35	5.35	5.33	4.88	
		0.4	5.74	4.52	4.42	4.56	23.54	58.76	0.55	5.19	5.26	4.71	
		0.5	5.92	4.51	4.48	4.61	23.87	60.89	0.75	5.41	5.32	4.86	
	5	0.1	0.2	5.35	4.63	4.61	4.64	50.25	86.29	12.44	4.96	5.01	4.67
			0.3	5.83	4.72	4.71	4.71	51.61	90.74	30.09	5.28	5.17	4.78
			0.4	5.84	4.61	4.57	4.61	52.59	94.06	50.38	5.30	5.20	4.85
			0.5	6.02	4.47	4.45	4.47	53.39	95.31	67.73	5.32	5.23	4.94
		0.2	0.3	6.02	5.24	5.19	5.24	50.00	76.99	11.99	5.72	5.62	5.26
0.4			6.05	5.12	5.07	5.14	51.16	83.81	25.37	5.63	5.49	5.26	
0.5			6.03	4.93	4.88	4.95	51.66	91.40	42.06	5.66	5.41	5.23	
10		0.1	0.2	5.67	4.89	4.75	4.74	60.58	89.73	36.28	5.34	5.23	4.80
			0.3	5.67	4.89	4.75	4.74	60.58	89.73	74.51	5.34	5.23	4.80
			0.4	5.57	4.61	4.50	4.54	59.39	99.63	91.91	5.27	5.21	4.80
			0.5	5.55	3.98	3.90	3.96	60.98	99.77	97.47	4.56	4.58	4.27
		0.2	0.3	5.97	4.07	4.02	4.07	62.15	76.43	29.0	4.98	4.94	4.55
	0.4		6.07	5.04	4.96	4.98	60.73	89.21	55.95	5.66	5.52	5.23	
	0.5		6.12	4.62	4.54	4.58	60.22	95.96	75.84	5.51	5.44	4.98	

Table 4: Empirical levels (%) of the test statistics C_{mm} , C_{ml} , C_{eql} , C_{deql} , lrt , $anv1$, $anv2$, $\tilde{\chi}_a^2$, $\tilde{\chi}_d^2$, and $\tilde{\chi}_0^2$ based on 10,000 replications for data generated from negative binomial distribution with $n_1 = n_2 = 100$ for $k = 2$ groups and $\alpha = 5\%$.

		$n_1 = n_2 = 100$											
$\mu_1 = \mu_2$	ψ_1	ψ_2	C_{mm}	C_{ml}	C_{eql}	C_{deql}	lrt	$anv1$	$anv2$	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$	
1	0.1	0.2	4.85	4.30	4.29	4.32	22.28	57.25	0.24	4.59	4.63	4.40	
		0.3	4.81	4.23	4.19	4.23	22.58	61.64	0.49	4.43	4.45	4.23	
		0.4	4.96	4.27	4.25	4.29	22.89	64.49	0.82	4.58	4.54	4.35	
		0.5	4.99	4.19	4.12	4.23	23.26	65.82	1.22	4.55	4.65	4.41	
	0.2	0.3	4.89	4.27	4.23	4.29	21.78	73.58	0.51	4.53	4.57	4.37	
		0.4	4.93	4.27	4.23	4.28	22.52	75.24	0.80	4.63	4.61	4.41	
		0.5	4.85	4.17	4.14	4.21	22.90	76.25	1.14	4.61	4.58	4.46	
	5	0.1	0.2	5.23	4.67	4.66	4.66	50.12	93.01	21.48	4.92	4.90	4.78
			0.3	5.36	4.40	4.35	4.39	50.59	98.05	58.68	4.72	4.73	4.47
			0.4	5.56	4.48	4.45	4.50	50.76	99.39	83.68	4.79	4.78	4.64
			0.5	5.64	4.40	4.35	4.40	51.78	99.43	94.72	4.74	4.73	4.52
		0.2	0.3	4.82	4.27	4.27	4.29	49.35	82.48	19.33	4.51	4.50	4.34
0.4			5.04	4.43	4.43	4.44	49.13	93.63	45.74	4.68	4.65	4.48	
0.5			5.41	4.44	4.42	4.43	49.48	98.32	70.23	4.86	4.90	4.68	
10		0.1	0.2	4.94	4.57	4.44	4.44	59.39	95.53	53.27	4.59	4.60	4.42
			0.3	4.68	4.31	3.97	3.96	58.07	99.75	90.37	4.14	4.13	3.98
			0.4	4.57	3.85	3.54	3.55	59.85	99.94	98.98	3.79	3.79	3.62
			0.5	4.50	3.78	3.52	3.53	60.48	99.99	99.92	3.76	3.66	3.52
		0.2	0.3	4.70	4.77	4.35	4.37	59.02	83.74	38.20	4.48	4.46	4.31
	0.4		4.80	4.51	4.11	4.14	58.69	96.65	75.21	4.32	4.27	4.15	
	0.5		5.04	4.64	4.32	4.35	58.75	99.60	93.52	4.57	4.53	4.41	

Table 5: Empirical powers (%) of the test statistics C_{ml} , C_{eql} , C_{deql} , $\tilde{\chi}_a^2$, $\tilde{\chi}_d^2$, and $\tilde{\chi}_0^2$ based on 10,000 replications for data generated from negative binomial distribution with $n_1 = n_2 = 20$ for $k = 2$ groups and $\alpha = 5\%$.

		$n_1 = n_2 = 20$											
μ_1	δ	$\psi_1 = 0.1, \psi_2 = 0.2$						$\psi_1 = 0.2, \psi_2 = 0.5$					
		C_{ml}	C_{eql}	C_{deql}	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$	C_{ml}	C_{eql}	C_{deql}	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$
1	0.1	2.82	2.73	2.93	5.58	5.54	4.12	2.67	2.48	2.78	5.48	5.14	4.14
	0.2	4.85	4.66	4.98	8.60	8.45	6.57	4.46	4.19	4.70	7.91	7.29	5.98
	0.3	7.65	7.4	8.02	13.21	12.94	10.3	6.95	6.66	7.24	11.65	10.74	8.99
	0.4	11.12	10.79	11.63	18.56	18.29	14.98	10.28	9.95	10.74	16.41	15.18	13.31
	0.5	15.74	15.26	16.34	25.36	24.84	21.29	13.92	13.46	14.59	21.64	19.86	17.81
	0.6	21.52	20.89	22.37	33.04	32.23	28.26	18.53	17.93	19.47	28.08	26.18	23.65
	0.7	27.34	26.64	28.67	41.21	40.36	36.17	23.18	22.36	24.41	34.44	32.33	29.52
	0.8	33.37	32.43	35.14	49.00	48.28	44.05	28.61	27.72	30.13	41.41	39.30	36.39
5	0.1	7.47	7.45	7.42	8.35	7.96	6.77	7.17	7.10	7.16	8.24	7.33	6.45
	0.2	15.53	15.52	15.52	17.16	16.23	14.32	12.37	12.29	12.45	13.32	11.74	11.06
	0.3	27.43	27.32	27.35	29.45	28.24	25.79	20.68	20.58	20.76	21.46	19.12	18.26
	0.4	42.99	42.94	42.94	45.48	43.99	40.65	31.05	30.95	31.13	31.63	28.76	28.10
	0.5	58.75	58.61	58.65	61.14	59.55	56.69	42.51	42.34	42.61	43.36	39.75	38.82
	0.6	71.33	71.26	71.29	73.43	72.16	69.83	53.35	53.20	53.44	54.71	50.88	50.02
	0.7	81.59	81.52	81.59	83.40	82.23	80.36	63.92	63.66	63.92	64.28	60.82	60.21
	0.8	89.02	88.97	88.99	90.24	89.41	88.18	72.26	72.12	72.37	72.85	69.67	69.18
10	0.1	8.68	8.65	8.68	9.58	9.09	7.75	7.96	7.90	7.99	8.70	7.60	6.98
	0.2	19.83	19.80	19.77	20.90	19.61	17.84	14.58	14.51	14.64	14.81	12.89	12.36
	0.3	36.17	36.12	36.09	37.21	35.53	33.20	24.75	24.65	24.78	24.56	21.89	21.31
	0.4	55.13	55.03	54.98	56.32	54.33	51.53	36.03	35.91	36.09	35.83	32.12	31.60
	0.5	70.79	70.76	70.57	72.26	70.38	68.27	48.45	48.23	48.46	48.18	43.84	43.64
	0.6	82.87	82.83	82.68	83.27	81.91	80.40	59.67	59.55	59.72	59.18	55.51	55.19
	0.7	90.61	90.57	90.41	91.06	90.23	88.90	69.38	69.25	69.37	69.12	65.31	65.03
	0.8	95.55	95.55	95.28	95.89	95.18	94.60	77.74	77.64	77.65	77.27	73.92	73.94

Table 6: Empirical powers (%) of the test statistics C_{ml} , C_{eql} , C_{deql} , $\tilde{\chi}_a^2$, $\tilde{\chi}_d^2$, and $\tilde{\chi}_0^2$ based on 10,000 replications for data generated from negative binomial distribution with $n_1 = n_2 = 30$ for $k = 2$ groups and $\alpha = 5\%$.

		$n_1 = n_2 = 30$											
μ_1	δ	$\psi_1 = 0.1, \psi_2 = 0.2$						$\psi_1 = 0.2, \psi_2 = 0.5$					
		C_{ml}	C_{eql}	C_{deql}	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$	C_{ml}	C_{eql}	C_{deql}	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$
1	0.1	4.77	4.60	4.88	6.18	6.07	5.12	4.46	4.32	4.60	6.11	5.67	5.01
	0.2	8.42	8.20	8.55	10.55	10.36	9.20	7.65	7.46	7.84	9.64	9.03	8.31
	0.3	14.47	14.22	14.64	17.27	17.03	15.44	12.68	12.43	12.93	15.30	14.38	13.45
	0.4	21.94	21.69	22.15	25.78	25.19	23.14	19.09	18.72	19.40	22.53	21.37	20.38
	0.5	31.30	30.92	31.58	35.93	35.56	33.26	26.45	26.04	26.86	30.44	29.17	28.09
	0.6	39.77	39.42	40.32	44.21	43.05	41.34	34.41	33.91	34.95	39.00	37.18	36.00
	0.7	50.67	50.14	51.16	55.96	55.26	52.98	43.24	42.76	43.83	47.93	46.25	44.89
	0.8	60.22	59.68	60.69	65.43	64.77	62.39	51.91	51.28	52.55	56.75	54.72	53.68
5	0.1	9.35	9.31	9.38	10.01	9.41	8.76	8.68	8.64	8.69	8.85	7.89	7.77
	0.2	22.34	22.27	22.31	23.12	22.36	21.20	17.05	16.96	17.09	17.45	15.92	15.70
	0.3	40.93	40.87	40.92	41.89	40.84	39.31	29.76	29.63	29.84	29.75	27.40	27.32
	0.4	60.57	60.51	60.56	61.62	60.19	58.86	44.00	43.82	44.05	44.09	41.30	41.30
	0.5	77.64	77.62	77.67	78.65	77.53	76.23	58.20	58.08	58.29	57.95	55.14	55.25
	0.6	83.99	83.96	83.98	84.16	82.61	82.20	71.11	70.93	71.20	70.88	68.01	68.37
	0.7	95.07	95.04	95.05	95.13	94.76	94.50	81.41	81.30	81.40	81.09	79.07	79.20
	0.8	98.09	98.10	98.05	98.18	97.98	97.84	88.25	88.17	88.28	88.08	86.40	86.66
10	0.1	10.75	10.73	10.71	11.27	10.53	9.97	8.97	8.91	8.97	9.17	8.12	8.03
	0.2	27.45	27.36	27.41	28.02	26.86	25.71	19.57	19.47	19.60	19.29	17.41	17.42
	0.3	50.82	50.69	50.63	51.56	50.12	48.53	33.04	32.93	33.04	32.39	29.68	29.79
	0.4	72.43	72.35	72.34	72.99	71.52	70.41	48.72	48.52	48.73	47.69	44.64	44.95
	0.5	87.18	87.15	87.06	87.45	86.66	85.99	63.23	63.11	63.28	62.22	59.52	59.71
	0.6	94.64	94.60	94.48	94.77	94.24	93.76	76.01	75.95	75.99	75.31	72.40	72.90
	0.7	98.29	98.29	98.16	98.35	98.21	98.06	85.25	85.16	85.24	84.58	82.69	82.99
	0.8	99.53	99.52	99.27	99.52	99.43	99.39	91.88	91.80	91.76	91.21	89.67	90.06

Table 7: Empirical powers (%) of the test statistics C_{ml} , C_{eql} , C_{deql} , $\tilde{\chi}_a^2$, $\tilde{\chi}_d^2$, and $\tilde{\chi}_0^2$ based on 10,000 replications for data generated from negative binomial distribution with $n_1 = n_2 = 50$ for $k = 2$ groups and $\alpha = 5\%$.

		$n_1 = n_2 = 50$											
μ_1	δ	$\psi_1 = 0.1, \psi_2 = 0.2$						$\psi_1 = 0.2, \psi_2 = 0.5$					
		C_{ml}	C_{eql}	C_{deql}	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$	C_{ml}	C_{eql}	C_{deql}	$\tilde{\chi}_a^2$	$\tilde{\chi}_d^2$	$\tilde{\chi}_0^2$
1	0.1	6.92	6.77	6.94	7.51	7.42	6.93	6.56	6.50	6.58	7.31	6.97	6.63
	0.2	13.14	13.01	13.20	14.05	13.83	13.17	11.78	11.69	11.86	12.58	12.03	11.83
	0.3	23.91	23.75	23.93	25.20	24.74	23.82	20.76	20.54	20.89	21.93	21.04	20.73
	0.4	37.50	37.28	37.53	39.15	38.61	37.62	32.34	32.01	32.48	33.74	32.36	32.24
	0.5	52.16	51.98	52.20	54.15	53.59	52.30	45.16	44.79	45.35	46.58	45.21	44.97
	0.6	65.74	65.60	65.75	67.46	66.94	65.85	57.24	56.98	57.31	58.90	57.27	56.96
	0.7	76.84	76.59	76.84	78.14	77.89	77.24	68.63	68.38	68.74	69.94	68.69	68.52
	0.8	85.61	85.49	85.50	86.61	86.34	85.57	77.97	77.72	78.02	79.11	77.76	77.72
5	0.1	12.27	12.27	12.30	12.67	12.21	11.73	10.48	10.39	10.54	10.48	9.59	9.72
	0.2	32.81	32.75	32.78	33.19	32.41	31.85	25.10	24.90	25.12	24.59	23.09	23.31
	0.3	60.58	60.55	60.59	61.06	60.20	59.47	44.67	44.50	44.72	44.16	41.90	42.52
	0.4	82.36	82.31	82.33	82.65	82.11	81.65	64.49	64.32	64.51	63.95	62.07	62.60
	0.5	93.71	93.68	93.70	93.92	93.64	93.47	79.98	79.90	79.99	79.58	77.94	78.40
	0.6	98.25	98.24	98.24	98.38	98.25	98.17	89.46	89.34	89.52	89.09	88.14	88.45
	0.7	99.48	99.48	99.46	99.51	99.49	99.46	95.27	95.18	95.26	95.00	94.41	94.65
	0.8	99.92	99.92	99.91	99.91	99.91	99.88	98.12	98.11	98.12	98.06	97.71	97.86
10	0.1	15.31	15.17	15.17	15.25	14.81	14.45	10.65	10.55	10.66	10.53	9.68	9.87
	0.2	44.96	44.85	44.83	45.00	44.05	43.30	26.82	26.72	26.81	26.14	24.42	24.84
	0.3	73.83	73.75	73.72	74.20	73.38	72.78	49.02	48.88	49.05	47.88	45.34	46.22
	0.4	91.46	91.45	91.31	91.54	91.22	90.93	68.86	68.71	68.88	67.99	65.84	66.43
	0.5	98.06	98.04	97.94	98.02	97.88	97.81	83.84	83.74	83.82	83.30	81.92	82.42
	0.6	99.70	99.69	99.61	99.67	99.64	99.64	92.66	92.63	92.66	92.11	91.44	91.66
	0.7	99.95	99.95	99.84	99.94	99.93	99.94	97.12	97.12	97.08	96.80	96.34	96.49
	0.8	100.00	100.00	99.91	100.00	100.00	100.00	99.14	99.13	99.08	99.04	98.82	98.90

Table 8: Empirical powers (%) of the test statistics C_{ml} , C_{eql} , C_{deql} , $\tilde{\chi}_a^2$, $\tilde{\chi}_{\bar{d}}^2$, and $\tilde{\chi}_0^2$ based on 10,000 replications for data generated from negative binomial distribution with $n_1 = n_2 = 100$ for $k = 2$ groups and $\alpha = 5\%$.

		Negative Binomial Distribution											
μ_1	δ	$\psi_1 = 0.1, \psi_2 = 0.2$						$\psi_1 = 0.2, \psi_2 = 0.5$					
		C_{ml}	C_{eql}	C_{deql}	$\tilde{\chi}_a^2$	$\tilde{\chi}_{\bar{d}}^2$	$\tilde{\chi}_0^2$	C_{ml}	C_{eql}	C_{deql}	$\tilde{\chi}_a^2$	$\tilde{\chi}_{\bar{d}}^2$	$\tilde{\chi}_0^2$
1	0.1	9.51	9.45	9.50	9.80	9.61	9.32	8.80	8.78	8.83	9.07	8.69	8.71
	0.2	23.25	23.16	23.29	23.70	23.36	23.02	20.52	20.34	20.58	20.90	20.13	20.13
	0.3	44.03	43.92	44.03	44.44	44.16	43.73	38.38	38.13	38.49	38.51	37.57	37.74
	0.4	65.53	65.46	65.50	66.19	65.91	65.43	58.11	57.92	58.25	58.48	57.70	57.79
	0.5	83.04	82.96	83.05	83.51	83.18	82.86	74.80	74.65	74.92	74.87	74.04	74.28
	0.6	92.67	92.63	92.65	92.74	92.63	92.55	87.43	87.31	87.50	87.39	86.93	87.09
	0.7	97.36	97.35	97.34	97.48	97.40	97.34	94.34	94.25	94.36	94.44	94.08	94.13
	0.8	99.09	99.08	99.09	99.15	99.12	99.07	97.66	97.60	97.64	97.69	97.57	97.59
5	0.1	19.24	19.19	19.20	19.25	18.89	18.80	13.66	13.57	13.67	13.33	12.68	12.91
	0.2	57.56	57.48	57.51	57.62	57.14	56.73	39.67	39.47	39.72	39.14	37.84	38.44
	0.3	88.17	88.14	88.16	88.21	87.99	87.79	70.73	70.61	70.84	70.02	68.79	69.37
	0.4	98.09	98.08	98.06	98.08	98.00	97.99	89.75	89.72	89.77	89.43	88.94	89.15
	0.5	99.81	99.81	99.71	99.81	99.80	99.80	97.38	97.35	97.37	97.20	96.97	97.06
	0.6	99.99	99.99	99.96	99.99	99.99	99.99	99.38	99.38	99.37	99.36	99.32	99.33
	0.7	100.00	100.00	99.97	100.00	100.00	100.00	99.93	99.93	99.93	99.91	99.91	99.91
	0.8	100.00	100.00	99.98	100.00	100.00	100.00	100.00	100.00	99.99	100.00	100.00	100.00
10	0.1	25.06	24.98	24.80	24.87	24.48	24.32	16.56	16.43	16.52	15.93	15.14	15.50
	0.2	72.42	72.36	72.07	72.26	71.85	71.74	46.54	46.33	46.59	45.50	44.07	44.68
	0.3	95.96	95.93	95.62	95.94	95.81	95.76	77.63	77.53	77.61	76.86	75.60	76.16
	0.4	99.75	99.75	99.54	99.75	99.73	99.73	94.16	94.07	94.13	93.79	93.34	93.52
	0.5	100.00	100.00	99.85	100.00	100.00	100.00	98.90	98.90	98.87	98.85	98.73	98.79
	0.6	100.00	100.00	99.85	100.00	100.00	100.00	99.83	99.82	99.73	99.80	99.79	99.80
	0.7	100.00	100.00	99.94	100.00	100.00	100.00	100.00	100.00	99.97	100.00	100.00	100.00
	0.8	100.00	100.00	99.95	100.00	100.00	100.00	100.00	100.00	99.98	100.00	100.00	100.00