

**Aerosol characterization of OptiChamber Diamond with and without the LiteTouch mask**

		Device	FPD <4.7µm SD	FPF <4.7µm % (SD)	MMAD (µm) (SD)	GSD (SD)
Albuterol	NGI - 30 LPM	pMDI	57.8 (4.0)	63.7 (4.2)	2.4 (0.0)	1.5 (0.0)
		pMDI*	59.9 (1.7)	61.8 (1.0)	2.4 (0.2)	1.6 (0.0)
		OptiChamber Diamond	61.2 (3.7)	87.8 (1.5)	2.4 (0.0)	1.5 (0.0)
		OptiChamber Diamond with large mask*	40.8 (0.8)	91.0 (2.2)	2.4 (0.1)	1.6 (0.0)
	NGI - 15 LPM	pMDI	44.7 (2.1)	46.4 (2.6)	2.6 (0.0)	1.5 (0.0)
		pMDI**	40.8 (1.2)	45.8 (1.4)	2.7 (0.1)	1.6 (0.0)
		OptiChamber Diamond	64.1 (1.8)	85.1 (3.9)	2.6 (0.1)	1.5 (0.0)
		OptiChamber Diamond with small mask**	52.1 (4.8)	89.1 (3.8)	2.7 (0.1)	1.5 (0.0)
		OptiChamber Diamond with medium mask**	46.3 (4.4)	91.3 (0.5)	2.7 (0.1)	1.5 (0.0)

		Device	FPD <4.7µm SD	FPF <4.7µm % (SD)	MMAD (µm) (SD)	GSD (SD)
Fluticasone Propionate 110	NGI - 30 LPM	pMDI	48.9 (6.1)	51.5 (4.5)	2.4 (0.1)	1.8 (0.1)
		pMDI*	57.3 (1.5)	49.7 (1.8)	2.7 (0.1)	1.8 (0.1)
		OptiChamber Diamond	52.0 (7.0)	77.6 (4.9)	2.2 (0.0)	1.6 (0.0)
		OptiChamber Diamond with large mask*	36.4 (7.0)	86.4 (2.0)	2.2 (0.0)	1.6 (0.1)
	NGI - 15 LPM	pMDI	39.7 (7.0)	39.6 (2.9)	2.9 (0.2)	2.1 (0.6)
		pMDI**	37.2 (5.9)	38.7 (3.4)	3.0 (0.2)	1.8 (0.1)
		OptiChamber Diamond	38.6 (4.9)	71.3 (1.6)	2.4 (0.0)	1.6 (0.0)
		OptiChamber Diamond with small mask**	33.8 (3.9)	82.1 (6.0)	2.6 (0.0)	1.5 (0.1)
		OptiChamber Diamond with medium mask**	31.8 (5.6)	86.3 (4.0)	2.5 (0.0)	1.5 (0.0)

		Device	FPD <4.7µm SD	FPF <4.7µm % (SD)	MMAD (µm) (SD)	GSD (SD)
Ipratropium Bromide	NGI - 30 LPM	pMDI	5.7 (0.6)	34.6 (4.7)	0.9 (0.1)	2.0 (0.1)
		pMDI*	4.6 (0.6)	30.1 (3.3)	0.8 (0.1)	1.8 (0.2)
		OptiChamber Diamond	6.1 (0.9)	74.3 (6.7)	0.9 (0.0)	1.8 (0.1)
		OptiChamber Diamond with large mask*	4.5 (1.4)	81.3 (3.4)	0.9 (0.0)	1.6 (0.0)
	NGI - 15 LPM	pMDI	3.0 (0.1)	19.2 (0.6)	1.3 (0.0)	1.9 (0.1)
		pMDI**	1.9 (0.2)	15.2 (2.1)	1.2 (0.0)	1.2 (0.0)
		OptiChamber Diamond	3.9 (0.1)	63.4 (1.3)	1.3 (0.0)	1.6 (0.0)
		OptiChamber Diamond with small mask**	2.9 (0.6)	88.3 (1.6)	1.2 (0.0)	1.2 (0.0)
		OptiChamber Diamond with medium mask**	3.2 (0.6)	90.8 (0.9)	1.2 (0.0)	1.2 (0.0)

Note: SD = Standard Deviation  
 \*, \*\* means that the same pMDI was used during the test involving the corresponding mask.