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**Supplement of**

**A comprehensive study of hygroscopic properties of calcium- and magnesium-containing salts: implication for hygroscopicity of mineral dust and sea salt aerosols**

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Figure S1. Number size distribution of Ca(NO$_3$)$_2$ aerosol particles (with a dry mobility diameter of 100 nm, as selected using a differential mobility analyzer) at <5, 50 and 90% RH.