

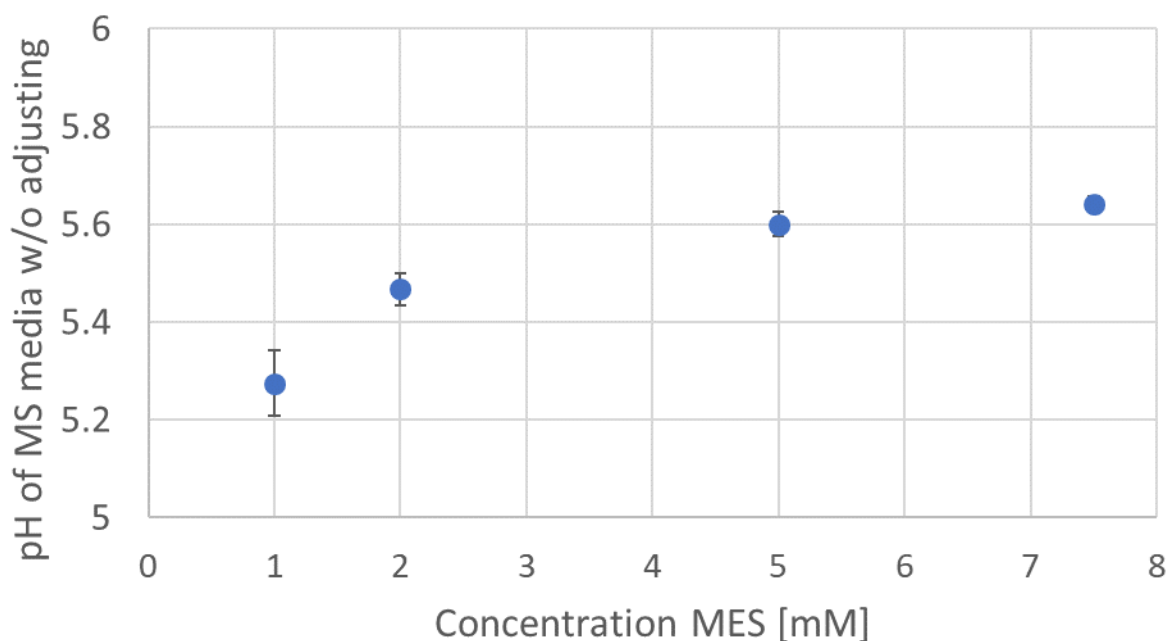
M5650 MES Buffer Mix

Properties:

Form:	Powder
Appearance:	White
Application:	pH Buffer
Solubility:	Water
Typical Working Concentration:	1.09 g/L (5 mM MES)
Storage Temp:	Room Temperature
Other Notes:	Plant Tissue Culture Tested; For Research Use only

Application Notes:

MES is known as one of the original 'Good' buffers for biological research because of the molecules pK_A , solubility, and relatively low metal-binding constants (Good *et al.* 1966). The pK_A of MES at 25°C is 6.1. Shown below is MES Buffer mixture at different concentrations added to an MS medium with 30 g/L sucrose and 7 g/L agar:



Product No. M5650 allows you to prepare media with little to no manual pH adjustment.

Please Note: While PhytoTech Labs tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References:

Good NE, Winget GD, Winter W, Connolly TN, Izawa S, and RMM Singh (1966) Hydrogen Ion Buffers for Biological Research. *Biochemistry* 5(2):467-477.

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