

BA132

McFARLAND STANDARD

Formula

Reagents:

Sulphuric acid, 1%(v/v)

Sulphuric acid	1.00 ml
Deionized water	100.00 ml

Barium chloride, 1.175% (W/V)

Barium chloride	1.175 g
Deionized water	100.00 ml

Precautions :

1. For Laboratory Use.

Use: McFarland standards are used as a reference to adjust the turbidity of bacterial suspension so that the number of bacteria will be within a given range to standardize microbial testing.

Quality Control:

Appearance: Colourless clear liquid

McFarland Standard No.	0.5	1	2	3	4
1.0% Barium chloride (ml)	0.5	0.1	0.2	0.3	0.4
1.0% Sulfuric acid (ml)	9.95	9.9	9.8	9.7	9.6
Approx.cell density(1×10^8 CFU/mL)	1.5	3.0	6.0	9.0	12.0
%Transmittance*	74.3	55.6	35.6	26.4	21.5
Absorbance*	0.08-0.1	0.257	0.451	0.582	0.669

***At wavelength of 600 nm.**

Storage: Below 25°C

Packing : 100/500 ml bottle