

[Ammonium Sulfate (M)]	pH						Tube Number	Ammonium Sulfate [M]	Tube Number	Buffer
	4	5	6	7	8	9				
0.8	A1	A2	A3	A4	A5	A6	A1. 0.8		A1. 0.1 M Citric Acid pH 4.0	
							B1. 1.6		B1. 0.1 M Citric Acid pH 4.0	
							C1. 2.4		C1. 0.1 M Citric Acid pH 4.0	
1.6	B1	B2	B3	B4	B5	B6	D1. 3.2		D1. 0.1 M Citric Acid pH 4.0	
							A2. 0.8		A2. 0.1 M Citric Acid pH 5.0	
							B2. 1.6		B2. 0.1 M Citric Acid pH 5.0	
2.4	C1	C2	C3	C4	C5	C6	C2. 2.4		C2. 0.1 M Citric Acid pH 5.0	
							D2. 3.2		D2. 0.1 M Citric Acid pH 5.0	
3.2	D1	D2	D3	D4	D5	D6	A3. 0.8		A3. 0.1 M MES pH 6.0	
							B3. 1.6		B3. 0.1 M MES pH 6.0	
							C3. 2.4		C3. 0.1 M MES pH 6.0	
							D3. 3.2		D3. 0.1 M MES pH 6.0	
							A4. 0.8		A4. 0.1 M HEPES pH 7.0	
							B4. 1.6		B4. 0.1 M HEPES pH 7.0	
							C4. 2.4		C4. 0.1 M HEPES pH 7.0	
							D4. 3.2		D4. 0.1 M HEPES pH 7.0	
							A5. 0.8		A5. 0.1 M Tris pH 8.0	
							B5. 1.6		B5. 0.1 M Tris pH 8.0	
							C5. 2.4		C5. 0.1 M Tris pH 8.0	
							D5. 3.2		D5. 0.1 M Tris pH 8.0	
							A6. 0.8		A6. 0.1 M Bicine pH 9.0	
							B6. 1.6		B6. 0.1 M Bicine pH 9.0	
							C6. 2.4		C6. 0.1 M Bicine pH 9.0	
							D6. 3.2		D6. 0.1 M Bicine pH 9.0	

The pH indicated on each Grid Screen reagent is the ACTUAL pH of the reagent at 22.0°C. All pH adjustments have been made using hydrochloric acid or sodium hydroxide.

Chemical Analysis

Ammonium Sulfate

M_r 132.14 (NH₄)₂SO₄ ≥ 99.5% Purity

Cl	<0.0005%	Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.005%	Cr	<0.0005%	Na	<0.005%
Al	<0.0005%	Cu	<0.0002%	Ni	<0.0005%	As	<0.00002%	Fe	<0.0002%	Pb	<0.002%
Ba	<0.0005%	K	<0.005%	Sr	<0.0001%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0001%	Mn	<0.0005%	NO ₃	<0.001%	PO ₄	<0.0005%

Citric Acid anhdrous

M_r 192.43 C₆H₈O₇

Cl	<0.0005%	Oxalate	<0.05%	PO ₄	<0.0005%	SO ₄	<0.002%	Tartrate	<0.2%	Ca	<0.005%
Cd	<0.0005%	Co	<0.0005%	Cu	<0.0005%	Fe	<0.0005%	Ni	<0.0005%	Pb	<0.0005%
Zn	<0.0005%										

MES

M_r 195.25 C₆H₁₃NO₄S ≥ 99.5% Purity

Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.0005%	Cr	<0.0005%	Cl	<0.005%	Ag	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Pb	<0.00002%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.002%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%	Hg	<0.00001%

HEPES

M_r 238.31 C₈H₁₈N₂O₄S ≥ 99.5% Purity

Co	<0.0005%	Mo	<0.0005%	Cr	<0.0005%	Cl	<0.0005%	Ag	<0.00002%	Pb	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Zn	<0.0005%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Hg	<0.00001%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%		

Reagent Formulation and Specification Data Sheet

Tris

 M_r 121.14

 $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3$ ≥ 99.8% Purity

Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.0005%	Cr	<0.0005%	Cl	<0.0005%	Ag	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Pb	<0.00002%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%	Hg	<0.00001%

Bicine

 M_r 163.18

 $\text{C}_6\text{H}_{13}\text{NO}_4$ ≥ 99.5% Purity

Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.0005%	Cr	<0.0005%	Cl	<0.0005%	Ag	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Pb	<0.00002%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%	Hg	<0.00001%

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	pH						
	4	5	6	7	8	9	
[Polyethylene Glycol 6000 (% w/v)]	0	A1	A2	A3	A4	A5	A6
	10	B1	B2	B3	B4	B5	B6
	20	C1	C2	C3	C4	C5	C6
	30	D1	D2	D3	D4	D5	D6
	Lithium Chloride (1.0 M)]						

The pH indicated on each Grid Screen reagent is the ACTUAL pH of the reagent at 22.0°C. All pH adjustments have been made using hydrochloric acid or sodium hydroxide.

Tube Number	Polyethylene Glycol 6000 [% w/v]	Tube Number	Buffer
A1. 0		A1.	0.1 M Citric Acid pH 4.0
B1. 10		B1.	0.1 M Citric Acid pH 4.0
C1. 20		C1.	0.1 M Citric Acid pH 4.0
D1. 30		D1.	0.1 M Citric Acid pH 4.0
A2. 0		A2.	0.1 M Citric Acid pH 5.0
B2. 10		B2.	0.1 M Citric Acid pH 5.0
C2. 20		C2.	0.1 M Citric Acid pH 5.0
D2. 30		D2.	0.1 M Citric Acid pH 5.0
A3. 0		A3.	0.1 M MES pH 6.0
B3. 10		B3.	0.1 M MES pH 6.0
C3. 20		C3.	0.1 M MES pH 6.0
D3. 30		D3.	0.1 M MES pH 6.0
A4. 0		A4.	0.1 M HEPES pH 7.0
B4. 10		B4.	0.1 M HEPES pH 7.0
C4. 20		C4.	0.1 M HEPES pH 7.0
D4. 30		D4.	0.1 M HEPES pH 7.0
A5. 0		A5.	0.1 M Tris pH 8.0
B5. 10		B5.	0.1 M Tris pH 8.0
C5. 20		C5.	0.1 M Tris pH 8.0
D5. 30		D5.	0.1 M Tris pH 8.0
A6. 0		A6.	0.1 M Bicine pH 9.0
B6. 10		B6.	0.1 M Bicine pH 9.0
C6. 20		C6.	0.1 M Bicine pH 9.0
D6. 30		D6.	0.1 M Bicine pH 9.0

Tube Number: All Tubes Lithium Chloride [1.0 M]

Chemical Analysis

Lithium Chloride anhydrous

M_r 42.39 LiCl

N	<0.001%	Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.005%	Cr	<0.0005%	Na	<0.005%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0005%	As	<0.00001%	Fe	<0.0005%	Pb	<0.0005%
Ba	<0.001%	K	<0.005%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%				

Polyethylene Glycol 6,000

M_r 5000-7000

Peroxide	<0.001%	Aldehyde	<0.005%	DNases, RNases, proteases, phosphatases: None detected							
Cl	<0.005%	Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.005%	Cr	<0.0005%	Na	<0.02%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0005%	As	<0.00001%	Fe	<0.0005%	Pb	<0.0005%
Ba	<0.0005%	K	<0.0005%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%				

Citric Acid anhdrous

M_r 192.43 C₆H₈O₇

Cl	<0.0005%	Oxalate	<0.05%	PO ₄	<0.0005%	SO ₄	<0.002%	Tartrate	<0.2%	Ca	<0.005%
Cd	<0.0005%	Co	<0.0005%	Cu	<0.0005%	Fe	<0.0005%	Ni	<0.0005%	Pb	<0.0005%
Zn	<0.0005%										

MES

M_r 195.25 C₆H₁₃NO₄S ≥ 99.5% Purity

Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.0005%	Cr	<0.0005%	Cl	<0.005%	Ag	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Pb	<0.00002%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.002%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%	Hg	<0.00001%

Reagent Formulation and Specification Data Sheet

HEPES

M_r 238.31

$C_8H_{18}N_2O_4S$ $\geq 99.5\%$ Purity

Co	<0.0005%	Mo	<0.0005%	Cr	<0.0005%	Cl	<0.0005%	Ag	<0.00002%	Pb	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Zn	<0.0005%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Hg	<0.00001%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%		

Tris

M_r 121.14

$NH_2C(CH_2OH)_3$ $\geq 99.8\%$ Purity

Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.0005%	Cr	<0.0005%	Cl	<0.0005%	Ag	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Pb	<0.00002%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%	Hg	<0.00001%

Bicine

M_r 163.18

$C_6H_{13}NO_4$ $\geq 99.5\%$ Purity

Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.0005%	Cr	<0.0005%	Cl	<0.0005%	Ag	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Pb	<0.00002%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%	Hg	<0.00001%

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		pH					
		5.0	5.6	6.3	6.9	7.5	8.2
[Sodium/Potassium Phosphate (M)]	0.8	A1	A2	A3	A4	A5	A6
	1.0	B1	B2	B3	B4	B5	B6
	1.4	C1	C2	C3	C4	C5	C6
	1.8	D1	D2	D3	D4	D5	D6

Tube Number	Sodium dihydrogen Phosphate monohydrate [M]	Tube Number	di-Potassium hydrogen Phosphate [M]	Tube Number	Combined concentration and pH
A1.	0.784	A1.	0.016	A1.	0.8 M Sodium/Potassium Phosphate pH 5.0
B1.	0.980	B1.	0.020	B1.	1.0 M Sodium/Potassium Phosphate pH 5.0
C1.	1.372	C1.	0.028	C1.	1.4 M Sodium/Potassium Phosphate pH 5.0
D1.	1.764	D1.	0.036	D1.	1.8 M Sodium/Potassium Phosphate pH 5.0
A2.	0.72	A2.	0.080	A2.	0.8 M Sodium/Potassium Phosphate pH 5.6
B2.	0.9	B2.	0.1	B2.	1.0 M Sodium/Potassium Phosphate pH 5.6
C2.	1.26	C2.	0.14	C2.	1.4 M Sodium/Potassium Phosphate pH 5.6
D2.	1.62	D2.	0.18	D2.	1.8 M Sodium/Potassium Phosphate pH 5.6
A3.	0.52	A3.	0.28	A3.	0.8 M Sodium/Potassium Phosphate pH 6.3
B3.	0.65	B3.	0.35	B3.	1.0 M Sodium/Potassium Phosphate pH 6.3
C3.	0.91	C3.	0.49	C3.	1.4 M Sodium/Potassium Phosphate pH 6.3
D3.	1.17	D3.	0.63	D3.	1.8 M Sodium/Potassium Phosphate pH 6.3
A4.	0.28	A4.	0.52	A4.	0.8 M Sodium/Potassium Phosphate pH 6.9
B4.	0.35	B4.	0.65	B4.	1.0 M Sodium/Potassium Phosphate pH 6.9
C4.	0.49	C4.	0.91	C4.	1.4 M Sodium/Potassium Phosphate pH 6.9
D4.	0.63	D4.	1.17	D4.	1.8 M Sodium/Potassium Phosphate pH 6.9
A5.	0.12	A5.	0.68	A5.	0.8 M Sodium/Potassium Phosphate pH 7.5
B5.	0.15	B5.	0.85	B5.	1.0 M Sodium/Potassium Phosphate pH 7.5
C5.	0.21	C5.	1.19	C5.	1.4 M Sodium/Potassium Phosphate pH 7.5
D5.	0.27	D5.	1.53	D5.	1.8 M Sodium/Potassium Phosphate pH 7.5
A6.	0.032	A6.	0.768	A6.	0.8 M Sodium/Potassium Phosphate pH 8.2
B6.	0.04	B6.	0.96	B6.	1.0 M Sodium/Potassium Phosphate pH 8.2
C6.	0.056	C6.	1.344	C6.	1.4 M Sodium/Potassium Phosphate pH 8.2
D6.	0.072	D6.	1.728	D6.	1.8 M Sodium/Potassium Phosphate pH 8.2

Chemical Analysis

Sodium dihydrogen Phosphate

M_r 137.99 H₂NaO₄P ≥ 99% Purity

Cl	<0.005%	Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.005%	Cr	<0.0005%	Na	<0.02%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0005%	As	<0.00001%	Fe	<0.0005%	Pb	<0.0005%
Ba	<0.0005%	K	<0.0005%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%				

di-Potassium hydrogen Phosphate

M_r 174.18 HK₂PO₄ ≥ 99% Purity

Cl	<0.005%	Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.005%	Cr	<0.0005%	Na	<0.02%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0005%	As	<0.00001%	Fe	<0.0005%	Pb	<0.0005%
Ba	<0.0005%	K	<0.0005%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	Na	<0.5%		

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Sodium Chloride (M)	pH						Tube Number	Sodium Chloride [M]	Tube Number	Buffer
	4	5	6	7	8	9				
1.0	A1	A2	A3	A4	A5	A6	A1. 1.0	A1. 0.1 M Citric Acid pH 4.0		
2.0	B1	B2	B3	B4	B5	B6	B1. 2.0	B1. 0.1 M Citric Acid pH 4.0		
3.0	C1	C2	C3	C4	C5	C6	C1. 3.0	C1. 0.1 M Citric Acid pH 4.0		
4.0	D1	D2	D3	D4	D5	D6	D1. 4.0	D1. 0.1 M Citric Acid pH 4.0		
							A2. 1.0	A2. 0.1 M Citric Acid pH 5.0		
							B2. 2.0	B2. 0.1 M Citric Acid pH 5.0		
							C2. 3.0	C2. 0.1 M Citric Acid pH 5.0		
							D2. 4.0	D2. 0.1 M Citric Acid pH 5.0		
							A3. 1.0	A3. 0.1 M MES pH 6.0		
							B3. 2.0	B3. 0.1 M MES pH 6.0		
							C3. 3.0	C3. 0.1 M MES pH 6.0		
							D3. 4.0	D3. 0.1 M MES pH 6.0		
							A4. 1.0	A4. 0.1 M HEPES pH 7.0		
							B4. 2.0	B4. 0.1 M HEPES pH 7.0		
							C4. 3.0	C4. 0.1 M HEPES pH 7.0		
							D4. 4.0	D4. 0.1 M HEPES pH 7.0		
							A5. 1.0	A5. 0.1 M Tris pH 8.0		
							B5. 2.0	B5. 0.1 M Tris pH 8.0		
							C5. 3.0	C5. 0.1 M Tris pH 8.0		
							D5. 4.0	D5. 0.1 M Tris pH 8.0		
							A6. 1.0	A6. 0.1 M Bicine pH 9.0		
							B6. 2.0	B6. 0.1 M Bicine pH 9.0		
							C6. 3.0	C6. 0.1 M Bicine pH 9.0		
							D6. 4.0	D6. 0.1 M Bicine pH 9.0		

The pH indicated on each Grid Screen reagent is the ACTUAL pH of the reagent at 22.0°C. All pH adjustments have been made using hydrochloric acid or sodium hydroxide.

Chemical Analysis

Sodium Chloride

M _r 132.14	(NH ₄) ₂ SO ₄	≥ 99.5% Purity									
N	<0.001%	As	<0.00001%	Cd	<0.0005%	SO ₄	<0.01%	Mg	<0.0005%	Pb	<0.0005%
Br	<0.005%	Ba	<0.0005%	Co	<0.0005%	Fe	<0.0001%	Mn	<0.0005%	Sr	<0.0005%
I	<0.001%	Bi	<0.0005%	Cr	<0.0005%	K	<0.005%	Mo	<0.0005%	Zn	<0.0005%
Al	<0.0005%	Ca	<0.001%	Cu	<0.0005%	Li	<0.0005%	Ni	<0.0005%	PO ₄	<0.0005%

Citric Acid anhdrous

M _r 192.43	C ₆ H ₈ O ₇	≥ 99.5% Purity									
Cl	<0.0005%	Oxalate	<0.05%	PO ₄	<0.0005%	SO ₄	<0.002%	Tartrate	<0.2%	Ca	<0.0005%
Cd	<0.0005%	Co	<0.0005%	Cu	<0.0005%	Fe	<0.0005%	Ni	<0.0005%	Pb	<0.0005%
Zn	<0.0005%										

MES

M _r 195.25	C ₆ H ₁₃ NO ₄ S	≥ 99.5% Purity									
Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.0005%	Cr	<0.0005%	Cl	<0.005%	Ag	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Pb	<0.00002%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.002%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%	Hg	<0.00001%

HEPES

M _r 238.31	C ₈ H ₁₈ N ₂ O ₄ S	≥ 99.5% Purity									
Co	<0.0005%	Mo	<0.0005%	Cr	<0.0005%	Cl	<0.0005%	Ag	<0.00002%	Pb	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Zn	<0.0005%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Hg	<0.00001%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%		

Reagent Formulation and Specification Data Sheet

Tris

 M_r 121.14

 $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3$ ≥ 99.8% Purity

Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.0005%	Cr	<0.0005%	Cl	<0.0005%	Ag	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Pb	<0.00002%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%	Hg	<0.00001%

Bicine

 M_r 163.18

 $\text{C}_6\text{H}_{13}\text{NO}_4$ ≥ 99.5% Purity

Co	<0.0005%	Mo	<0.0005%	SO ₄	<0.0005%	Cr	<0.0005%	Cl	<0.0005%	Ag	<0.00002%
Al	<0.0005%	Cu	<0.0005%	Ni	<0.0002%	As	<0.00001%	Fe	<0.0005%	Pb	<0.00002%
Ba	<0.0005%	K	<0.01%	Sr	<0.0005%	Bi	<0.0005%	Li	<0.0005%	Zn	<0.0005%
Ca	<0.001%	Mg	<0.0005%	Cd	<0.0005%	Mn	<0.0005%	PO ₄	<0.002%	Hg	<0.00001%

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