Data Sheet

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Product: Agilent Seahorse XF RPMI Medium pH 7.4

(with 1 mM HEPES, without phenol red, glucose, pyruvate, and L-glutamine)

Part Number: 103576-100

Agilent Seahorse XF RPMI Medium pH 7.4 is for use in conjunction with Seahorse XF instruments, XF supplements, XF assay kits, cartridges and XF cell culture microplates. XF RPMI Medium pH 7.4 contains 1 mM HEPES, and is pre-adjusted to pH 7.4. Thus, there is no requirement to adjust the pH of the final assay media (e.g. medium + supplements) when used under recommended conditions.

The constituents are based on Roswell Park Memorial Institute Medium (RPMI). No sodium bicarbonate (tissue culture buffering agent), glucose, glutamine/GlutaMax or sodium pyruvate is present, allowing for specific customization of the assay medium. It is recommended that this product be used together with Agilent Seahorse XF supplements (Glucose, Pyruvate and Glutamine, part numbers 103577-100, 103578-100 and 103579-100, respectively). Omission of phenol red allows for accurate and precise measurement of absolute pH value by XF Analyzers.

Medium Specifications

Osmolality	291 +/- 50 mOsm/Kg H_2O
Endotoxin	< 0.0052 EU/mL
Storage	4°C
Shelf Life	12 months from the date of manufacture when stored at 4°C

Medium Formulation

Component	Final Concentration
Mg^{2+} (as $MgSO_4$)	0.4 mM
Ca^{2+} (as $Ca(NO_3)_2 \cdot 4H_2O$)	0.4 mM
NaCl	102.7 mM
KCl	5.4 mM
Na_2HPO_4	5.6 mM
Phenol Red	0 mg/L

Other Constituents:

Biotin, Calcium Nitrate Tetrahydrate, D-Ca-Pantothenate, Choline Chloride, Cyanocobalamin, Folic Acid, Glycine, Glutathione, i-Inositol, L-Arginine, L-Asparagine hydrate, L-Aspartic Acid, L-Cystine•2HCl, L-Glutamic Acid, L-Histidine, L-Hydroxyproline, L-Isoleucine, L-Leucine, L-Lysine•HCl, L-Methionine, L-Phenylalanine, L-Proline, L-Serine, L-Threonine, L-Tryptophan, L-Tyrosine•2Na•2H_2O, L-Valine, Nicotinamide, para-Aminobenzoic Acid, Pyridoxine•HCl, Riboflavin, Thiamine•HCl

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