Agilent

Trusted Answers

Product: Agilent Seahorse XF DMEM Medium pH 7.4

(with 5 mM HEPES, without phenol red, glucose, pyruvate, and L-glutamine)

Part Number: 103575-100

Agilent Seahorse XF DMEM 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 DMEM Medium pH 7.4 is formulated with 5 mM HEPES and is pre-adjusted to pH 7.4. Thus, there is no requirement to adjust the pH of the final assay medium (e.g. medium + supplements) when used under recommended conditions.

The constituents are based on Dulbecco's Modified Eagle's Medium (DMEM). No sodium bicarbonate, glucose, glutamine/GlutaMAX or sodium pyruvate is present, allowing specific customization of the assay medium. It is recommended that this product is to 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 from the medium allows for the most accurate and precise measurement of absolute pH value by XF Analyzers.

Medium specifications

pH	7.4 ± 0.1 at 36 to 38 °C
Osmolality	300 ± 15 mOsm/Kg H_2O
Endotoxin	<0.25 EU/mL at FW
Storage	4 °C
Shelf Life	18 months from the date of manufacture when stored at 4 °C

Medium formulation

Component	Final Concentration
Mg^{2+} (as $MgSO_4$)	0.8 mM
Ca^{2+} (as $CaCl_2$)	1.8 mM
NaCl	143 mM
KCl	5.4 mM
NaH_2PO_4	0.91 mM
Phenol Red	0 mg/L
HEPES	5.0 mM

Other constituents:

L-Arginine•HCl, L-Cystine•2HCl, Glycine, L-Histidine•HCl•H_2O, L-Isoleucine, L-Leucine, L-Lysine•HCl, L-Methionine, L-Phenylalanine, L-Serine, L-Threonine, L-Tryptophan, L-Valine, L-Tyrosine•2Na•2H_2O, Folic Acid, Riboflavin, D-Ca-Panthothenate, Choline Chloride, i-Inositol, Nicotinamide, Pyridoxine•HCl, Thiamine•HCl, $Fe(NO_3)_3$•9H_2O.

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