AuxoPM AA Substrate List

Amino acid omission		Amino acid omission with rescue
(AA-Ala) All amino acids except Ala	(AA-Leu) All amino acids except Leu	(AA-Lys) All amino acids except Lys, supplemented with 2,6-Diaminopimelic acid
(AA-Arg) All amino acids except Arg	(AA-Lys) All amino acids except Lys	(AA-Ile) All amino acids except Ile, supplemented with Homoserine
(AA-Asn) All amino acids except Asn	(AA-Met) All amino acids except Met	(AA-Thr) All amino acids except Thr, supplemented with Homoserine
(AA-Asp) All amino acids except Asp	(AA-Phe) All amino acids except Phe	(AA-Met) All amino acids except Met, supplemented with Homoserine
(AA-Cys) All amino acids except Cys	(AA-Pro) All amino acids except Pro	(AA-Trp) All amino acids except Trp, supplemented with Shikimic acid
(AA-Gln) All amino acids except Gln	(AA-Ser) All amino acids except Ser	(AA-Phe) All amino acids except Phe, supplemented with Shikimic acid
(AA-Glu) All amino acids except Glu	(AA-Thr) All amino acids except Thr	(AA-Tyr) All amino acids except Tyr, supplemented with Shikimic acid
(AA-Gly) All amino acids except Gly	(AA-Trp) All amino acids except Trp	(AA-Glu) All amino acids except Glu, supplemented with α Keto-Glutaric acid
(AA-His) All amino acids except His	(AA-Tyr) All amino acids except Tyr	(AA-Gln) All amino acids except Gln, supplemented with α Keto-Glutaric acid
(AA-Ile) All amino acids except Ile	(AA-Val) All amino acids except Val	(AA-Pro) All amino acids except Pro, supplemented with α Keto-Glutaric acid

AuxoPM AA Amino Acid Auxotrophy Assay

Catalog #F-0055

A1 Positive Control	**A2** Negative Control	**A3** AA-Ala	**A4** AA-Gly	**A5** Positive Control	**A6** Negative Control	**A7** AA-Ala	**A8** AA-Gly	**A9** Positive Control	**A10** Negative Control	**A11** AA-Ala	**A12** AA-Gly
B1 AA-Glu	**B2** AA-Gln	**B3** AA-Pro	**B4** AA-Arg	**B5** AA-Glu	**B6** AA-Gln	**B7** AA-Pro	**B8** AA-Arg	**B9** AA-Glu	**B10** AA-Gln	**B11** AA-Pro	**B12** AA-Arg
C1 AA-Trp	**C2** AA-Phe	**C3** AA-Tyr	**C4** AA-Ser	**C5** AA-Trp	**C6** AA-Phe	**C7** AA-Tyr	**C8** AA-Ser	**C9** AA-Trp	**C10** AA-Phe	**C11** AA-Tyr	**C12** AA-Ser
D1 AA-Asp	**D2** AA-Asn	**D3** AA-Thr	**D4** AA-Cys	**D5** AA-Asp	**D6** AA-Asn	**D7** AA-Thr	**D8** AA-Cys	**D9** AA-Asp	**D10** AA-Asn	**D11** AA-Thr	**D12** AA-Cys
E1 AA-Ile	**E2** AA-Lys	**E3** AA-Met	**E4** AA-His	**E5** AA-Ile	**E6** AA-Lys	**E7** AA-Met	**E8** AA-His	**E9** AA-Ile	**E10** AA-Lys	**E11** AA-Met	**E12** AA-His
F1 AA-Val	**F2** AA-Leu	**F3** (AA-Glu) + α Keto-Glutaric acid	**F4** (AA-Trp) + Shikimic acid	**F5** AA-Val	**F6** AA-Leu	**F7** (AA-Glu) + α Keto-Glutaric acid	**F8** (AA-Trp) + Shikimic acid	**F9** AA-Val	**F10** AA-Leu	**F11** (AA-Glu) + α Keto-Glutaric acid	**F12** (AA-Trp) + Shikimic acid
G1 (AA-Ile) + Homoserine	**G2** (AA-Thr) + Homoserine	**G3** (AA-Gln) + α Keto-Glutaric acid	**G4** (AA-Phe) + Shikimic acid	**G5** (AA-Ile) + Homoserine	**G6** (AA-Thr) + Homoserine	**G7** (AA-Gln) + α Keto-Glutaric acid	**G8** (AA-Phe) + Shikimic acid	**G9** (AA-Ile) + Homoserine	**G10** (AA-Thr) + Homoserine	**G11** (AA-Gln) + α Keto-Glutaric acid	**G12** (AA-Phe) + Shikimic acid
H1 (AA-Lys) + 2,6-Diaminopimelic acid	**H2** (AA-Met) + Homoserine	**H3** (AA-Pro) + α Keto-Glutaric acid	**H4** (AA-Tyr) + Shikimic acid	**H5** (AA-Lys) + 2,6-Diaminopimelic acid	**H6** (AA-Met) + Homoserine	**H7** (AA-Pro) + α Keto-Glutaric acid	**H8** (AA-Tyr) + Shikimic acid	**H9** (AA-Lys) + 2,6-Diaminopimelic acid	**H10** (AA-Met) + Homoserine	**H11** (AA-Pro) + α Keto-Glutaric acid	**H12** (AA-Tyr) + Shikimic acid