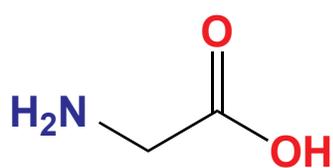


APPENDIX-1: Structural isomers of glycine.



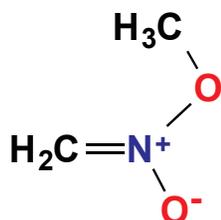
Glycine

Chemical Formula: $C_2H_5NO_2$

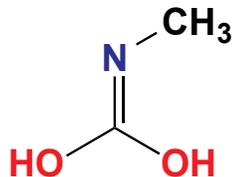
Exact Mass: 75.0320

Molecular Weight: 75.0666

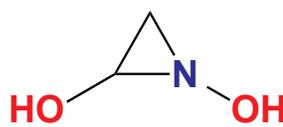
1. Methyl nitronate



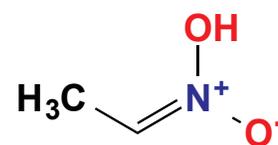
2. N-Methylcarbonimidic acid



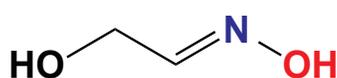
3. 1,2-Aziridinediol



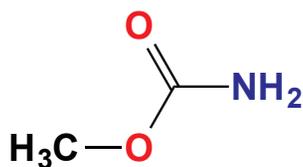
4. Aci-nitroethane



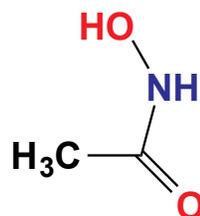
5. 2-(Hydroxyimino)ethanol



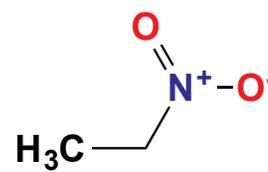
6. Methyl carbamate



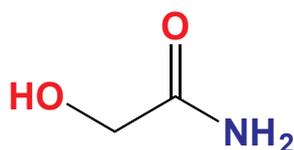
7. N-hydroxyacetamide



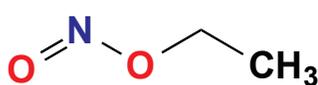
8. Nitroethane



9. Glycolamide



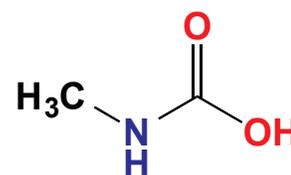
10. Ethyl nitrite



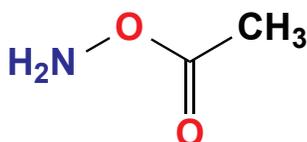
11. N-Hydroxymethylformamide



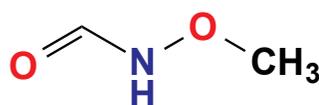
12. Methylcarbamic acid



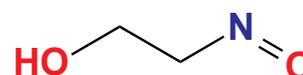
13. O-acetylhydroxylamine



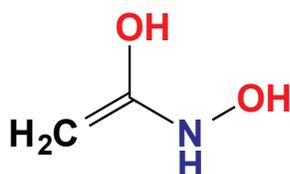
14. N-Methoxyformamide



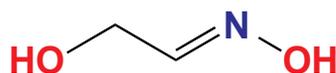
15. 2-Nitrosoethanol



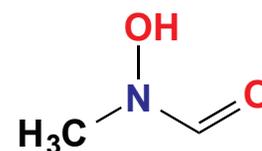
16. 1-(Hydroxyamino)ethenol



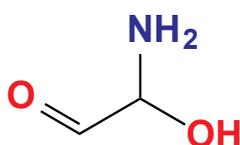
17. (2E)-2-(Hydroxyimino)ethanol



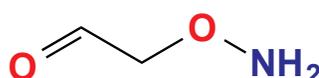
18. N-Hydroxy-N-methylformamide



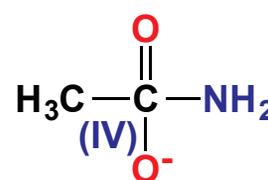
19. Amino(hydroxy)acetaldehyde



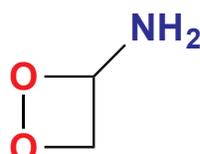
20. (Aminoxy)acetaldehyde



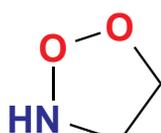
21. 1-Amino-1-oxo-ethanolate



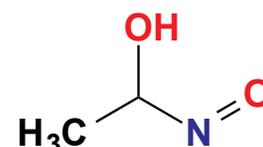
22. 1,2-Dioxetan-3-amine



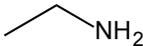
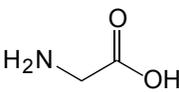
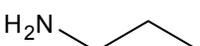
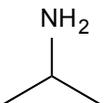
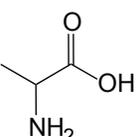
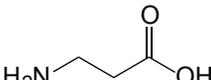
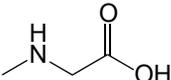
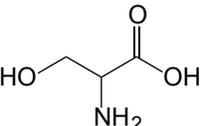
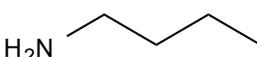
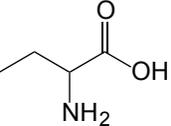
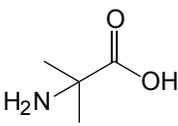
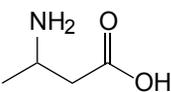
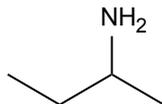
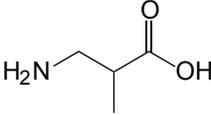
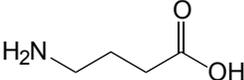
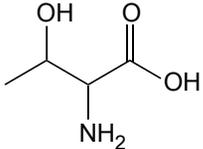
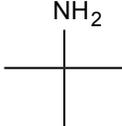
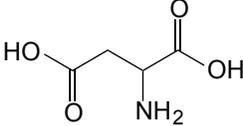
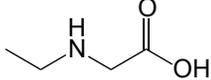
23. Bisoxazolidine



24. 1-Nitrosoethanol



APPENDIX-2: Molecular structures discussed in the present study.
The molecules in blue were detected in PICACHU samples in the study.

Amine	Amino acid			
C1  Methylamine CH_5N MW. 31.057 E.M. 31.0422				
C2  Ethylamine $\text{C}_2\text{H}_7\text{N}$ MW. 45.0837 E.M. 45.0579	 Dimethylamine $\text{C}_2\text{H}_7\text{N}$ MW. 45.0837 E.M. 45.0579	 Glycine $\text{C}_2\text{H}_5\text{NO}_2$ MW. 75.0666 E.M. 75.0320		
C3  Propylamine $\text{C}_3\text{H}_9\text{N}$ MW. 59.1103 E.M. 59.0735	 Isopropylamine $\text{C}_3\text{H}_9\text{N}$ MW. 59.1103 E.M. 59.0735	 α-Alanine $\text{C}_3\text{H}_7\text{NO}_2$ MW. 89.0932 E.M. 89.0477	 β-Alanine $\text{C}_3\text{H}_7\text{NO}_2$ MW. 89.0932 E.M. 89.0477	 Sarcosine $\text{C}_3\text{H}_7\text{NO}_2$ MW. 89.0932 E.M. 89.0477
		 Serine $\text{C}_3\text{H}_7\text{NO}_3$ MW. 105.0926 E.M. 105.0426		
C4  Butylamine $\text{C}_4\text{H}_{11}\text{N}$ MW. 73.1368 E.M. 73.0891	 α-Aminobutyric acid $\text{C}_4\text{H}_9\text{NO}_2$ MW. 103.1198 E.M. 103.0633	 α-Aminoisobutyric acid $\text{C}_4\text{H}_9\text{NO}_2$ MW. 103.1198 E.M. 103.0633	 β-Aminobutyric acid $\text{C}_4\text{H}_9\text{NO}_2$ MW. 103.1198 E.M. 103.0633	
 sec-Butylamine $\text{C}_4\text{H}_{11}\text{N}$ MW. 73.1368 E.M. 73.0891	 β-Aminoisobutyric acid $\text{C}_4\text{H}_9\text{NO}_2$ MW. 103.1198 E.M. 103.0633	 γ-Aminobutyric acid $\text{C}_4\text{H}_9\text{NO}_2$ MW. 103.1198 E.M. 103.0633	 Threonine $\text{C}_4\text{H}_9\text{NO}_3$ MW. 119.1192 E.M. 119.0582	
 tert-Butylamine $\text{C}_4\text{H}_{11}\text{N}$ MW. 73.1368 E.M. 73.0891	 Aspartic acid $\text{C}_4\text{H}_7\text{NO}_4$ MW. 133.1027 E.M. 133.0375	 N-Ethylglycine $\text{C}_4\text{H}_9\text{NO}_2$ MW. 103.1198 E.M. 103.0633		

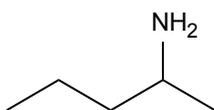
Abbreviation: MW., molecular weight; E.M., exact mass

Continued

Amine

Amino acid

C5

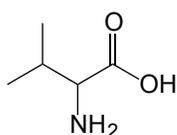


sec-Pentylamine

C₅H₁₃N

MW. 87.1634

E.M. 87.1048

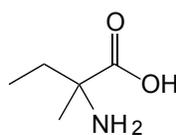


Valine

C₅H₁₁NO₂

MW. 117.1463

E.M. 117.0790

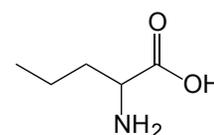


Isoleucine

C₅H₁₁NO₂

MW. 117.1463

E.M. 117.0790

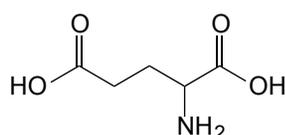


Norvaline

C₅H₁₁NO₂

MW. 117.1463

E.M. 117.0790

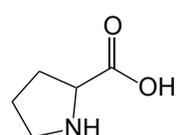


Glutamic acid

C₅H₉NO₄

MW. 147.1293

E.M. 147.0532

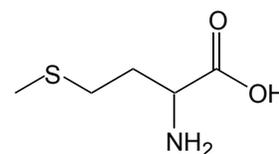


Proline

C₅H₉NO₂

MW. 115.1305

E.M. 115.0633



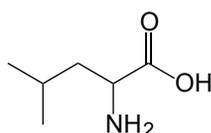
Methionine

C₅H₁₁NO₂S

MW. 149.2113

E.M. 149.0511

C6

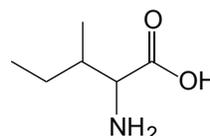


Leucine

C₆H₁₃NO₂

MW. 131.1729

E.M. 131.0946

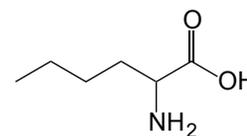


Isoleucine / allo-Isoleucine

C₆H₁₃NO₂

MW. 131.1729

E.M. 131.0946

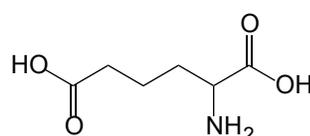


Norleucine

C₆H₁₃NO₂

MW. 131.1729

E.M. 131.0946



α-Aminoadipic acid

C₆H₁₁NO₄

MW. 161.1558

E.M. 161.0688