

ABBREVIATIONS

| | | |
|-----------------------|---|---|
| ADP | - | Adenosine 5' diphosphate |
| AP | | Alkaline phosphatase |
| APS | - | Ammonium per sulphate |
| ATP | - | Adenosine 5' triphosphate |
| BCIP | - | 5-bromo-4-chloro-3-indolyl phosphate |
| Binary complex- | | complex of eIF-2 and GDP/GTP |
| Bis-acrylamide | - | N, N'-methylene-bis-acrylamide |
| BMV RNA | - | Brome mosaic virus RNA |
| BSA | - | Bovine serum albumin |
| CH | - | Cycloheximide |
| Ci | - | Curie |
| CHO | - | Chinese hamster ovary cells |
| CK II | - | Casein Kinase II |
| CM-Sephadex | - | Carboxy methyl sephadex |
| CP | - | Creatine phosphate |
| CPK | - | Creatine phospho kinase |
| cpm | - | counts per minute |
| DEAE | - | Diethy aminoethyl |
| DNA | - | Deoxy ribonucleic acid |
| dsRNA | - | double stranded ribonucleic acid |
| DTT | - | dithiothreitol |
| EDTA | | Ethylene diamine tetra acetic acid |
| EF | - | Elongation factor |
| EGF | | Epidermal growth factor |
| eIF | - | Eukaryotic initiation factor |
| eIF-2 | - | Eukaryotic initiation factor 2 |
| eIF-2a | | Alpha subunit of eukaryotic initiation factor 2 |

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|--|---|--|
| eIF-2(αP) | - | Phosphorylated alpha subunit in eIF-2 |
| Fig. | - | Figure |
| GCN | - | General control non derepressable |
| GDP | - | Guanosine 5' diphosphate |
| GEF/eIF-2B/RF/co | - | eIF-2C - Guanine nucleotide exchange factor or reversing factor |
| GNE | - | Guanine nucleotide exchange |
| GSSG | - | Oxidized glutathione |
| GTP | - | Guanosine 5' triphosphate |
| HCR/HRI | - | Heme regulated inhibitor |
| HEPES | - | N-[2-hydroxyethyl] piperzine-N'-[2-ethane-sulfonic acid] |
| HIV | - | Human immuno deficiency virus |
| HSP | - | Heat shock protein |
| H₂O₂ | - | hydrogen peroxide |
| kDa | - | Kilodaltons |
| min | - | minutes |
| Mr. | - | Molecular weight |
| mRNA | - | messenger RNA |
| NADH | - | Nicotinamide adenine dinucleotide, reduced |
| NADPH | - | Nicotinamide adenine dinucleotide phosphate, reduced |
| NBT | - | Nitro blue tetrazonium |
| NEM | - | N-ethylmaleimide |
| PAGE | - | Polyacrylamide gel electrophoresis |
| PKR/dsI | - | double stranded RNA activated inhibitor |
| pmol | - | pico mole |
| RF | - | Reversing factor; see also GEF |
| RNA | - | ribonucleic acid |
| rRNA | - | ribosomal RNA |
| RNase | - | Ribonuclease |
| poly IC/((rI)_n-(rC)_n) | - | Synthetic polymer of Inosine and Cytosine |

| | | |
|------------------|---|--|
| S | - | Svedberg |
| SDS | - | Sodium dodecyl sulphate |
| <i>S. aureus</i> | - | <i>Staphylococcus aureus</i> |
| SV8 | - | <i>Staphylococcus aureus</i> protease |
| TCA | - | Trichloro acetic acid |
| TEMED | - | N',N,N,N', N'-tetramethyl ethyl-ethylene diamine |
| Ternary complex | - | Complex of eIF-2, Met.tRNA _i and GTP |
| Tris | - | Tris (hydroxymethyl) amino methane |
| tRNA | - | transfer RNA |
| WG.eIF-2 | - | Wheat germ eIF-2 |