organization; indeed, many of the combinations of baryum are virulent poisons.

Of the earthy Bases. (31) Aluminum, is the metallic basis of the earth alumina; the characteristic ingredient of the well known salt, called alum. The metallic basis, like the preceding, no where exists; but alumina, the compound of aluminum and oxygen, is one of the most abundant productions of nature; and constitutes an ingredient, in by far the greater number of rocks and soils, upon the surface of the globe. The different kinds of clay, also, from which bricks, earthenware, &c., are formed, consist chiefly of this earth, in different states of purity; so that it is a substance of great utility and importance. Alumina appears to have nothing to do with organization; at least, it is not known to form a necessary constituent of any organized being, either vegetable or animal; though it is in constant communication with organized beings; and appears to be almost necessary, in some indirect way, to their existence. This fact is very remarkable; for as the earth does not appear to be poisonous, it could scarcely have been so completely excluded from living bodies, except by some design beyond our comprehension.

(32) Glucinum, (33) Yttrium, (34) Zirconium, and (35) Thorinum, the four next elementary principles are the metallic bases of substances, usually considered as possessing the characters of