

ASPERGILLUS FLAVUS

AFLATOXIN EXTRACTED FROM THE MOLD CULTURES OF ASPERGILLUS FLAVUS.

COLORLESS CRYSTALS WHEN PURE.

SHOULD BE HANDLED IN A SEALED GLOVE BOX DUE TO ITS EXTREME TOXICITY AND CARCINOGENIC NATURE (CANCER CAUSING).

DEATH EVENTUALLY FROM 1 MILLIGRAM, DEPENDING ON PURITY...IT IS ALWAYS BETTER TO USE MORE.

SYMPTOMS: LOSS OF APPETITE, WEAKNESS IN THE LIMBS. AUTOPSY REVEALS HEMORRHAGE AND NECROSIS OF THE LIVER AND ENGORGEMENT OF THE KIDNEYS. MAKES THE DEATH LOOK LIKE IT WAS CAUSED BY EXCESSIVE DRINKING OF HEAVY ALCOHOLIC BEVERAGES.

AFLATOXINS ARE THE POISONOUS PRODUCT OF A GROUP OF POLYNUCLEAR MOLDS THAT GROW ON PEANUTS, CORN AND COTTONSEED MEAL. PRESENCE OF THE MOLD DOES NOT ALWAYS INSURE PRESENCE OF THE POISON. TOXIN PRODUCTION IS BASED ON FACTORS SUCH AS TEMPERATURE AND MOISTURE LEVEL.

THERE ARE TWO TYPES OF AFLATOXINS, BOTH OF WHICH ARE FLUORESCENT UNDER UV LAMPS. ONCE THE MOLD IS ESTABLISHED THE UV LAMP IS AN EXCELLENT WAY TO TELL IF TOXIN IS BEING CREATED. AFLATOXIN B GLOWS BLUE AND AFLATOXIN G GLOWS GREEN. AFLATOXIN B IS THE MOST POTENT STRAIN.

TO BEGIN CULTIVATION OF THE MOLD ONE MUST ISOLATE OR OBTAIN A CULTURE OF A.FLAVUS.

TO FIRST OBTAIN A CULTURE:

OBTAIN A BLACK LIGHT OR UV LAMP TO USE TO IDENTIFY THE TOXIN.

1. PLACE 2 CUPS OF SHREDDED WHEAT IN THE OVEN AT 100 DEG C FOR ONE HOUR. THIS WILL STERILIZE IT. PLACE THE WHEAT IN AN ALUMINUM PAN ABOUT 4X6 OR LARGER. SPREAD IT OUT IN THE PAN AND FILL THE PAN WITH STERILE WATER UNTIL IT IS HALF WAY UP TO THE WHEAT.
2. PLACE 2 CUPS OF DRY POPCORN KERNELS IN THE PAN WITH THE WHEAT.
3. COVER THE PAN WITH A PEICE OF ALUMINUM SCREEN.

4. MOVE THE PAN OUTSIDE IN A WOODED AREA WHERE IT CAN SIT IN THE SHADE 24HRS A DAY FOR 10 DAYS. IT MUST NOT BE DISTURBED.
 5. REMOVE THE SCREEN AND USE THE BLACK LIGHT TO LOOK FOR AFLATOXINS.
 6. IF THEY ARE FOUND, ISOLATE THEM WITH A Q-TIP OR REMOVE THEM AND PLACE IN A SEPARATE CONTAINER. WEAR A GAS MASK AND RUBBER GLOVES WHEN DOING THIS.
 7. YOU NOW HAVE ASPERGILLUS FLAVUS MOLD CULTURES TO GROW.
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PERFORM STEP 1 ABOVE AND KEEP EVERYTHING STERILE AND CLEAN. THIS TIME USE 150 GRAMS OF WHEAT AND 1/3 CUP DISTILLED WATER. PLACE IN A JAR AND INOCULATE IT WITH THE MOLD CULTURES, SEAL THE JAR AND LET SIT FOR 7-9 DAYS. THE MOLD SHOULD GROW VERY FAST AND IN ABUNDANCE. DO NOT DISTURB IT WHILE IT IS GROWING.

REMOVE ALL MOLD AND PLACE IN A BOILING FLASK.

ADD THREE PARTS CHLOROFORM TO ONE PART MOLD CULTURE IN THE BOILING FLASK OR SMALL JAR.

HEAT THE FLASK OR JAR ON A STEAM BATH FOR 10 MINUTES.

FILTER THE LIQUID THROUGH A COFFEE FILTER AND SAVE THE LIQUID IN ANOTHER FLASK.

NOW PLACE THE MOLD BACK IN THE ORIGINAL FLASK AND ADD 6 PARTS CHLOROFORM TO ONE PART MOLD. HEAT ON STEAM BATH FOR 10 MINUTES AND FILTER ONCE AGAIN.

MIX BOTH LIQUID EXTRACTS TOGETHER AND EVAPORATE TO 10ML ON A STEAM BATH, UNDER A STREAM OF NITROGEN IF POSSIBLE.

ADD THIS 10ML TO 200ML ETHER (YOU CAN USE STARTING FLUID). THIS WILL PRECIPITATE THE TOXIN.

COOL THE SOLUTION TO 5 DEG C AND FILTER THROUGH A COFFEE FILTER OR BUCHNER FUNNEL. THIS SHOULD YIELD ABOUT 500MG CRUDE AFLATOXINS WITH 60-70% PURITY. USED AS IS OR PURIFIED FURTHER.

IT IS VERY IMPORTANT THAT ONE USES CAUTION WHEN HANDLING THIS MATERIAL. DUST OR TOUCHING IT IS HAZARDOUS. THE MOLD OR TOXIN DUST IS TOXIC AND CAN KILL. WEAR GAS MASKS AND GLOVES AT ALL TIMES.

