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**Отдел коллекций микроорганизмов**
**Биологический институт ЧСАН**

Прага-Голешовице, Плынарни 6

**Department of Collections of Microorganisms**
**Institute of Biology of the Czechosl. Acad. Sci.**

Praha — Holešovice, Plynární 4

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## *Отдел коллекций микроорганизмов*

Отдел коллекций микроорганизмов был основан в 1952 г. с главным заданием сосредоточить коллекции культур бывшего Института проф. Бернгауера (Bernhauer) и Исследовательского института фармации и биохимии (Mykola).

В настоящее время в отделении имеются 2 научных работника, 1 ассистент, 3 ассистента-техника, 1 секретарша и 1 вспомогательная сила. Руководителем отделения является инж. Иосиф Фабиан (J. Fabian), кандидат технических наук. Здесь хранятся коллекция бактерий (400 штаммов), коллекция дрожжей и дрожжеподобных организмов (510 штаммов), коллекция лучистых грибков (1000 штаммов). В коллекциях сосредоточены промышленно важные штаммы, тест-штаммы, требуемые постоянно для определения витаминов, аминокислот и других биологически важных веществ, и некоторые типовые виды. Культуры предоставляются даром или на началах обмена всем желающим как в ЧССР, так и за границей, для научных и педагогических целей или для применения в промышленной практике.

Культуры поддерживаются в стандартных условиях, специфических для отдельных штаммов, и за их состоянием следят и после выдачи из коллекции таким образом, что от интересентов требуется представление регулярных сведений о состоянии полученных ими из коллекции культур, как и обо всех новых данных об этих культурах. Эти справки в отделении коллекций регистрируются для нужд всех последующих интересентов. В отделении коллекций сосредоточивается также в форме центральной картотеки учет всех культур непатогенных микроорганизмов в ЧССР, т. е. всех культур, поступающих из-за границы, и нововыделенных отечественных культур, применяющихся для исследований и в промышленной или сельскохозяйственной практике; регистрируются их наиболее важные свойства.

В связи с хранением и проверкой коллекций в прошлом, под руководством доктора Г. Фербера (G. Färber) отделение решило несколько практических задач: в 1953 г. промышленности были переданы инструкции по синтезу:

а) дигидроксиацетона из глицерола при помощи *Acetobacter suboxydans;*

б) изоаскорбиновой кислоты из Ca-D-глюконата с помощью штамма *Pseudomonas chromospirans* (Färber) (1);

в) D-манокетогептозы и седогептулозы из D-волемитола с помощью



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*Acetobacter suboxydans.*

В 1954 г. продолжалась разработка нового оригинального метода биосинтеза витамина С через Са-5-кето-D-глюконат и Са-2-кето-L-идонат, на который были выданы два чехословацких патента, № 87 081 и № 87 466 (2, 3, 4, 7, 8, 9). В 1955 г. приступили к работам по защите промышленных товаров от микробиальной коррозии в тропических и других условиях. Были разработаны новые методы для определения норм, обсуждавшихся и частично принятых на международных совещаниях в Мюнхене и Гааге. Были разработаны методы защиты от микробиальной коррозии некоторых материалов и обучен ряд работников. Проблематика микробиальной коррозии позднее, вместе с коллекцией плесеней, была сосредоточена в Лаборатории по изучению биохимии плесеней Биологического института ЧСАН, входящей в состав Отделения технической микробиологии.

Была разработана оригинальная методика селекции псевдомонад с помощью микроколоний (6). Изучалась проблема микробиальных симбиозов (5). В настоящее время отделение занимается основными вопросами, связанными с поисками оптимальных способов длительного поддерживания культур с сохранением их применимости. Кроме обычной таксономии изучаются и основные таксономические проблемы. Напр., для дополнения учета характерных признаков родов или видов разрабатывается вопрос трансформационных реакций актиномицетов на молекулах стероидов. Эта работа обещает принести новые теоретические данные как для таксономии актиномицетов, так и для возможного практического использования (10).

Отделение сосредоточивает, организует и координирует сотрудничество и с другими лабораториями в ЧССР, где поддерживаются сапрофитные культуры (напр., при составлении Центрального каталога непатогенных микроорганизмов в ЧССР. Из этих учреждений главными являются: Чехословацкая академия сельскохозяйственных наук, Кафедра физиологии растений, микробиологии и генетики биологического факультета Карлова университета, Кафедры физиологии растений, микробиологии и генетики университета в Брно, Кафедра технической микробиологии и биохимии Словацкой высшей технической школы в Братиславе, Исследовательский институт фармации и биохимии в Праге, Исследовательский институт антибиотиков, Розтоки под Прагой и т. п.



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## *Department of Collections of Microorganism*

The department was founded in 1952 and its principal task then it was to concentrate at one place the collection of the former institute of professor Bernhauer and that of the Research Institute for Pharmacy and Biochemistry (Mykola).

As of January 1, 1960, the department has 2 scientific workers, 1 research assistant, 3 technical assitants, 1 secretary and 1 auxiliary employee. Chairman of the department is Josef Fabián, C.Sc. The department keeps a collection of bacteria (400 strains), a collection of yeasts and yeast-like microorganisms (510 strains) and a collection of actinomycetes (1000 strains). Strains of industrial importance and those required for testing and assays of vitamins, amino acids and other biologically important substances are included in the collections, together with some type species. The cultures are freely available (either gratis or in exchange) to all interested, both in Czechoslovakia and abroad, for scientific, pedagogical or industrial purposes. They are maintained under standard conditions, specific for the individual strains, and their state is controlled even after a culture is given away, the new proprietor being asked to regularly supply information about the state of the given culture and possibly about new experiences with it, to the department of collections of microorganisms. These informations are registered in this department so that they may serve other applicants. The department possesses a central card catalogue of all cultures of non-pathogenic microorganisms in Czechoslovakia, i.e. of cultures received from abroad and those newly isolated in Czechoslovakia and used both in research and in industrial or agricultural practice, each card containing an account of special characteristics of the given strain.

In connection with regular examinations of the collections, carried out under the leadership of Dr. G. Färber, several practical assignments have been solved in the past years:

In 1953, the following syntheses were developed and passed on to industrial institutions for production:

a) dihydroxyacetone from glycerol with the aid of *Acetobacter suboxydans*,

b) iso-ascorbic acid from calcium D-gluconate with the aid of a *Pseudomonas chromospirans* strain (1),

c) D-mannoketoheptose and sedoheptulose from D-volemitol with the aid of *Acetobacter suboxydans*.

In 1954, further development of the original method of biosynthesis of vitamin



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C via calcium 5-keto-D-gluconate and calcium 2-keto-L-idonate was achieved and two Czechoslovak patent grants obtained (2, 3, 4, 7, 8, 9).

In 1955, work concerning protection of industrial products against microbial corrosion under tropical and other conditions was undertaken. New methods were proposed which were to serve as a basis for the definition of norms; these methods were discussed and partly accepted at international conferences in Munich and The Hague. Methods of protection of some materials against microbial corrosion were worked out and several workers trained therein. The complex of problems of microbial corrosion was later taken up by the department of technical microbiology where also the collection of fungi was transferred.

In later years, an original method of selection of Pseudomonas species with the aid of macrocolonies was described (6) and the problem of microbial symbioses taken up (5). At present, the department solves some fundamental questions following from the attempt to find the optimal ways of long-time maintenance of cultures with reference to their practical applicability. In addition do common taxonomy, attention is also devoted to fundamental taxonomical problems. In order to complete the characters of genera and species, the problem of actinomycete transformation reactions on steroid molecules is traeted experimentally. This work promises to contribute to the existing theoretical knowledge of this section of actinomycete taxonomy, as well as to their possible practical application (10).

The department concentrates, organizes and coordinates cooperation with other Czechoslovak institutions where saprophytic cultures are kept (e.g. in connection with the compilation of the Central catalogue of non-pathogenic microorganisms in Czechoslovakia). The following institutions should be mentioned at this point: Czechoslovak Academy of Agricultural Sciences; Chair of plant physiology, microbiology and genetics of the Faculty of Biology of the Charles University in Prague; Chair of plant physiology, microbiology and genetics of the University in Brno; Chair of technical microbiology and biochemistry of the Slovak Technical University in Bratislava; Research Institute for Pharmacy and Biochemistry in Prague; Research Institute for Antibiotics, Roztoky near Prague, and others.

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# KATALOG KULTUR

*Sestavil*

*Inž. Josef FABIÁN C. Sc.*

*a kolektiv*

NAKLADATELSTVÍ
ČESKOSLOVENSKÉ AKADEMIE VĚD
PRAHA 1960

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ČESKOSLOVENSKÁ AKADEMIE VĚD

BIOLOGICKÝ ÚSTAV

*oddělení sbírek mikroorganismů*

# KATALOG KULTUR

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# OBSAH

Úvod . . . . . 7

Bakterie . . . . . 13

Kvasinky a kvasinkovité mikroorganismy . . . . . 31

Aktinomycety . . . . . 48

*Kmeny k mikrobiologickým testům:*

Stanovení aminokyselin . . . . . 57
Stanovení antibiotik . . . . . 58
Stanovení vitaminů . . . . . 58
Různá stanovení . . . . . 59

*Produkční mikroorganismy:*

Antibiotika . . . . . 60
Kyseliny, alkoholy, enzymy a j. látky . . . . . 60
Různá použití . . . . . 61

Přehled zkratek použitých v katalogu . . . . . 62



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Declassified in Part - Sanitized Copy Approved for Release 2011/11/03 : CIA-RDP80T00246A015800220001-2

# ÚVOD

## *Oddělení sbírek mikroorganismů Biologického ústavu Československé akademie věd*

bylo založeno krátce po vzniku Biologického ústavu ČSAV v r. 1950 s hlavním úkolem soustředit sbírky kultur kvasného ústavu na Vysoké škole technické v Praze a Výzkumného ústavu pro farmacii a biochemii („Mykola") tak, aby kultury byly pohotově k disposici jak vědeckým pracovníkům ČSAV, tak ostatnímu československému výzkumu, školám a praxi.

V oddělení jsou samostatně udržovány tři sbírky nepatogenních mikroorganismů: sbírka bakterií, sbírka kvasinek a kvasinkovitých mikroorganismů, sbírka aktinomycet.

Sbírka plísní, která byla původně v oddělení udržována, byla později soustředěna v oddělení technické mikrobiologie Biologického ústavu ČSAV, kde je dosud vedena.

Podle toho, jak se během let ukazovala potřeba, byly také sbírky postupně obohaceny o řadu kmenů ze zahraničí, takže dnes jsou v oddělení soustředěny kmeny průmyslově významné, kmeny používané k mikrobilogickým testům pro stanovení vitaminů, aminokyselin, antibiotik a jiných biologicky významných látek a některé typové druhy, zajímavé z taxonomického hlediska.

Oddělení dále udržuje menší počet různých ras pivovarských a vinných kvasinek, které byly v minulosti sbírce předány, aniž byla kontrolována jejich identita a upotřebitelnost. Z tohoto důvodu je v katalogu neuvádíme, je však možné na požádání obdržeti jejich seznam.

Kultury jsou poskytovány zdarma nebo výměnou všem zájemcům jak v ČSSR, tak v zahraničí k účelům vědeckým, pedagogickým nebo k průmyslovému použití.

## *Používání katalogu*

1. Kultury každé sbírky jsou uvedeny samostatně.
2. Názvy druhů jsou seřazeny v abecedním pořádku. Nomenklatura bakterií je převážně v souladu s Bergey's Manual of Determinative Bacteriology, 7 ed. (1957), nomenklatura aktinomycet je přizpůsobena Bergey's Manual of Determinative Bacteriology, 7. ed. (1957), G. F. Gauze et al. Voprosy klasifikacii aktinomicetov antagonistov, Medgiz Moskva (1957), N. A. Krasilnikov O predělitěl bakterij i aktinomicetov, Izd. ANSSSR (1949). S. A. Waksman H. A. Lechevalier: Guide to the classification and identification of the Actinomycetes and their Antibiotics, Baltimore (1953), nomenklatura kvasinek podle Lodder, J. Kreger, van Rij, N. I. W. The Yeasts, Amsterdam, 1952 a zčásti Kudrjavcev, V. I.: Systematika drožžej, Izd. ANSSSR, Moskva 1954.
3. Pod názvem druhu je číslo BÚ ČSAV, jímž je kultura v našich sbírkách označena. Vedle je uvedeno číslo se zkratkou sbírky, z níž byla kultura získána, nebo jméno a laboratoř dárce.
4. V závorkách následují zkratky a čísla, pod nimiž je nebo byla kultura vedena v jiných sbírkách.
5. Rok převzetí kultury do BÚ ČSAV.
6. Následuje označení kmene dané původcem, nebo je uvedeno též známé synonymum.
7. Další údaje o původu kultury, speciálních vlastnostech nebo použití, literární citace.



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Některé údaje o použití kultur k speciálním účelům jsou mimo to přehledně shrnuty v samostatné části na konci katalogu. Byly převzaty z posledních vydání katalogů některých sbírek (American Type Culture Collection, National Collection of Industrial Bacteria, England) a jiných literárních pramenů, nebo byly nám dárcem předány současně s kulturou. Přesto, že není v možnostech oddělení sbírek aby tyto vlastnosti kmenů pravidelně kontrolovalo, domníváme se, že údaje mohou být dobrým vodítkem pro žadatele. Kultury jsou však udržovány za standardních podmínek specifických pro jednotlivé kmeny a sbírky se snaží sledovat jejich stav i po předání žadatelům. Z toho důvodu jsou zájemci o kultury žádáni, aby nejen sdělili k jakým účelům hodlají kultury použít a později jaký je stav kultur, bylo-li s nimi správně zacházeno, nýbrž i jakých nových poznatků dosáhli při jejich použití. Tyto informace jsou oddělením registrovány nejen proto, aby bylo možno nevhodné kultury vyřazovat a nahrazovat novými, ale hlavně proto, aby pomohly při orientaci dalším žadatelům.

## *Zasílání kultur*

Oddělení sbírek přijímá k deponování kmeny nepatogenní pro člověka, které byly prostudovány a jsou zajímavé taxonomicky nebo z hlediska průmyslového využití, nebo jsou vhodné k mikrobiálním testům. Současně s kulturou je žádoucí zaslati údaje o tom, kdy a odkud byla kultura isolována, jména a laboratoř pracovníka, který kulturu isoloval, podmínky optimální kultivace a udržování, odkazy na literaturu, event. separáty publikací.

Žádosti o kultury uvedené v katalogu je třeba adresovat na Biologický ústav ČSAV, oddělení sbírek mikroorganismů, Na cvičišti 2, Praha 6. Informace o kultivaci a udržování kultur, výjma těch, které jsou všeobecně známé, jsou zasílány na požádání.

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# ВВЕДЕНИЕ

## Отделение коллекций микроорганизмов Биологического института Чехословацкой академии наук

было основано в коротком сроке после основания Биологического института ЧСАН в 1950 г. с главной задачей сосредоточить коллекции культур бродильного института в техническом ВУЗе в Праге и Исследовательского института фармации и биохимии («Мыкола») таким образом, чтобы культуры были наготове для распоряжения как для научных сотрудников ЧСАН, так и для остальных чехословацких исследовательских институтов, школ и практики.

В отделении самостоятельно сохраняются три коллекции непатогенных микроорганизмов: коллекция бактерий, коллекция дрожжей и дрожжевых микроорганизмов, коллекция актиномицетов.

Коллекция плесней, которая первоначально находилась в отделении, была позднее сосредоточена в отделении технической микробиологии Биологического института ЧСАН, где находится до сих пор.

По мере потребления, коллекции постепенно обогащались рядом штаммов из заграницы так, что сегодня является типичным, что в отделении сосредоточены штаммы нужные для промышленности, штаммы использованные для микробиологических тестов при определении витаминов, аминокислот, антибиотиков и других биологически полезных веществ, и также некоторые типичные виды, интересные с точки зрения таксономии.

Отделение сохраняет тоже меньшее количество различных рас пивоваренных и виноградных дрожжей, которые когда-то были переданны в коллекцию без контроля их идентичности и употребительности. Поэтому мы их не приводим в каталогу, однако можно приобрести по требованию их список.

Культуры предоставляются бесплатно или обменом со всеми заинтересованными лицами как в Чехословакии так и заграницей для научных, педагогических целей и для промышленного использования.

## Применение каталога

1. Культуры каждой коллекции приведены самостоятельно.
2. Названия видов упорядочены по алфавиту. Номенклатура бактерий в основном в соответствии с Bergey's Manual of Determinative Bacteriology, 7 ed. (1957), номенклатура актиномицетов приспособлена Bergey's Manual ... (1957), Г. Ф. Гаузе и др., Вопросы классификации актиномицетов-антагонистов, Медгиз, Москва 1957, — Н. А. Красильников, Определитель бактерий и актиномицетов, изд. АНСССР, Москва 1949, S. A. Waksman, H. A. Lechevalier, Guide to the classification and identification of the Actinomycetes and their Antibiotics, Baltimore 1953, — номенклатура дрожжей приведена по J. Lodder, Kreger-v. Rij, N. J. W., The Yeasts, Amsterdam 1952, и частично по Кудрявцеву, В. И., Систематика дрожжей, изд. АН СССР, Москва 1954.
3. Ниже названия видов находится номер БИ ЧСАН, по которому культура в наших коллекциях обозначена. Рядом находится номер коллекции, из которой культура была получена, или фамилия и лаборатория дарителя.



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4. В скобках находятся названия и номера, под которыми культура отмечена в других коллекциях.
5. Год переведения культуры в БИ ЧСАН.
6. Далее находится обозначение штамма по автору, или приводится известный синоним культуры.
7. Следуют данные о происхождении культуры, об особых свойствах или об ее использовании, литературные цитации.

Некоторые данные об использовании культур для специальных задач включены в самостоятельную часть в конце каталога. Были переняты из последних изданий каталогов некоторых коллекций и других литературных источников, или были переданы автором совместно с культурой. Несмотря на то, что не в силах отделения коллекций регулярно контролировать свойства этих штаммов, мы предполагаем, что показания могут служить хорошим руководством для заявителей. Культуры сохраняются при стандартных условиях, специфических для отдельных штаммов, и мы стремимся следить за их состоянием и после передачи заявителям. Поэтому мы требуем от заявителей, чтобы сообщили не только для каких целей собираются использовать культуры и какое их состояние, но и каких новых сведений об культурах достигли. Эти сведения отделение регистрирует не только для того, чтобы было возможным непригодные культуры исключить, и заменить новыми, но главным образом для того, чтобы помогло при ориентировке для следующих заявителей.

## Отправление культур

Отделение коллекций принимает для хранения штаммы непатогенные для человека, которые были изучены и являются интересными с точки зрения таксономии или с точки зрения промышленного использования, или являются пригодными для микробиологических тестов. Совместно с культурой нужно прислать данные о том, когда и откуда культура была изолирована, фамилию и лабораторию работника, который изолировал культуру, условия оптимальной культивации и сохранения, литературную сноску, может быть и оттиски работ.

Заявления о культурах приведенных в каталогу нужно отправлять на адрес Биологический институт ЧСАН, отделение коллекций микроорганизмов, На цвичишти 2, Прага 6. Справки о культивации и хранении культур, кроме тех, которые общеизвестны, посылаем по требованию.



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# INTRODUCTION

## *The Department of the Collection of Microorganisms of the Institute of Biology of the Czechoslovak Academy of Science*

was organized shortly after the foundation of the Institute of Biology of the Czechoslovak Academy of Science in 1950. Its main task was to concentrate the type culture collection of the Fermentation Institute of the Technical University in Prague and the Institute of Pharmacy and Biochemistry ("Mykola") with the purpose of making the culture available to the scientific workers of the Czechoslovak Academy of Science as well as other scientific institutions, schools and industry.

In this Department three separate Collections of non-pathogenic microorganisms are being maintained: the collection of bacteria, yeasts and yeast-type microorganism and the collection of actinomycetes.

A collection of fungi was maintained originally as well but concentrated later in the Department of Technical Microbiology of the Institute of Biology of the Czechoslovak Academy of Science, where the cultivation of these fungi is continued.

The collections were continuously enlarged by the addition of strains from abroad according to requirements. It therefore is characteristic today, that in the Department are concentrated strains of industrial importance, strain used for microbiological testing of vitamins, amino acids, antibiotics and other biologically important substances and several types interesting from a taxonomical point of view.

The Department maintains a small amont of different strains of brewers yeasts and wine-yeasts, which were turned over to the collection in the past without control of their identity or applicability. They therefore are not listed in the catalogue, a list of these can be obtained by request.

The cultures are obtainable free of charge or in exchange to all Institutions interested in Czechoslovakia as well as abroad for scientific, pedagogical or industrial application.

## *The System of the Catalogue*

1. The cultures of each of the collection are listed separately.
2. The names of the types are given in accordance with Bergey's Manual of Determinative Bacteriology, 7th ed. (1957), the nomenclature of the actinomycetes is given according to Bergey's Manual of Determinative Bacteriology, 7th ed. (1957), G. F. Gauze et al. Voprosy klasifikacii aktinomicetov antagonistov, Medgiz Moskva 1957, N. A. Krasilnikov O predělitěl bakterij i aktinomicetov, Izd. ANSSSR 1949, S. A. Waksman H. A. Lechevalier: Guide to the classification and identification of the Actinomycetes and their Antibiotics, Baltimore 1953, the nomenclature of the yeasts according to Lodder, J. Kreger, van Rij, N. I. W. The Yeasts, Amsterdam 1952 and partly according to Kudrjavcev, V. I. Systematika drožžej, Izd. ANSSSR, Moskva 1954.
3. Below the name of the species the number of the Institute of Biology of the Czechoslovak Academy of Science is noted, under which the culture is carried in our collections. Besides the number and the abbreviated name of the collection from which the culture was obtained or the name and the Laboratory of the donor are given.



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4. In parenthesis the abbreviation and number of the culture in other collections is given.
5. The date at which the culture was taken over by the Institute of Biology of the Czechoslovak Academy of Science.
6. Original name of the strain or known synonyme.
7. Further information on the origin of the culture, special properties or application, literary citations.

Certain information on the application of the cultures for special purposes are summarized in a separate chapter at the end of the Catalogue. These were taken over from the latest editions of the catalogues of several collections (American Type Culture Collection, National Collection of Industrial Bacteria, England) and other sources or were received from the donor simultaneously with the culture. Though the Department of Collections does not have the possibilty to control the properties of the strains regularly this information may be of value to possible users. The cultures are being maintained under standard conditions specific for the single strains and the Collection endeavours to follow their state even after their being turned over to the applicant. Persons interested are requested therefore to inform us about the proposed application of the cultures, the state of the cultures and their experiences with these. These informations are being registered by the Department with the purpose of liquidating unsuitable cultures and replacing them by others and assisting other applicants in their orientation.

## *Distribution of cultures*

The Department of Collections accepts strains which are nonpathological to humans for deposition and were investigated. These strains have to be of interest from taxonomical, or industrial point of view or for microbiological tests. Simultaneously with the culture information on the date and place of isolation of the culture, the name and Laboratory of the worker who isolated the culture, the optimum conditions for its cultivation and maintainance, literature citations and possibly reprints of publications should be forwarded.

Requests for the cultures given in the catalogue should be addressed to the Institute of Biology of the Czechoslovak Academy of Science, Department of Cultures of Microorganisms, Na cvičišti 2, Prague 6. Information on the cultivation and maintainance of the cultures with the exception of those generally known will be forwarded upon request.



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# BAKTERIE

**Acetobacter acetigenus** (Henneberg) Bergey et al.
111 VŠCHT 1951

**Acetobacter capsulatus** Shimwell
328 NCIB 4943 (NCTC 4943) 1958
J. L. Shimwell, Cork, Eire. *J. Inst. Brew.*, 1936, **32,** 585.

**Acetobacter gluconicus** (Hermann)
112 NCIB 4739 (ATCC 9324, NCTC 4739) 1956
Bacterium gluconicum Hermann, Pribram Collection, Vienna. Produkce 5-ketoglukonové kyseliny a 2-ketoglukonové kyseliny.

**Acetobacter kuetzingianus** (Hansen) Bergey et al.
343 IFO 3222 (ATCC 6439 NCTC 3924) 1958
Bacterium kuetzingianum (Hansen) A. J. Kluyver, L. M. Produkce 2-keto a 5-ketoglukonové kyseliny

**Acetobacter melanogenus** (Beijerinck)
113 NCIB 8084 (ATCC 9937) 1956
C. B. van Niel, kmen M. A. 61.

114 NCIB 8086 (ATCC 9844) 1956
K. B. Raper, NRRL kmen B 58, N. Porges kmen 27.

**Acetobacter oxydans** (Henneberg) Bergey et al.
117 NCIB 8089 (ATCC 9433) 1957
K. B. Raper, kmen B-147 NRRL.

**Acetobacter pasteurianus** (Hansen) Beijerinck
118 VŠCHT 1951

**Acetobacter peroxydans** Visser't Hooft
119 NCIB 8618 (ATCC 12884) 1957
W. Verhoeven, kmen L 1374.

**Acetobacter rancens** Beijerinck
120 NCIB 8555 1956
A. J. Kluyver.

121 NCIB 8148 (ATCC 7839) 1956
L. B. Lockwood, N. Porges kmen 38.

**Acetobacter rubiginosus** nov. spec.
344 IFO 3243 1958
Kmen Kondo 03.

**Acetobacter** sp.
329 NCIB 6656 1958
(Kmen Kenya 17) R. M. Nattrass.

330 NCIB 6657 1958
(Kmen Kenya 26) R. M. Nattrass.



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**Acetobacter suboxydans** Kluyver et de Leeuw

| | | |
|---|---|---|
| 122 | NCIB 7113 (ATCC 9322, NCTC 7113)<br>T. K. Walker. | 1958 |
| 124 | ATCC 621<br>K. B. Raper, NRRL, A. J. Kluyver. Stanovení *p*-aminobenzoové, nikotinové a pantothenové kyseliny, produkce sorbosy, 2-keto a 5-ketoglukonové kyseliny. *J. biol. Chem.*, 1948, **174,** 273. | 1956 |
| 125 | VŠCHT | 1951 |
| 126 | NCIB 7069 (ATCC 621, NCTC 7069)<br>viz 124. | 1956 |
| 127 | NCIB 8036 (ATCC 621-H) E. de Ritter. Stanovení panthenolu. | |
| 129 | NCTC 6723 (NCIB 6723)<br>Kmen B-72 NRRL. | 1957 |
| 331 | NCIB 6430 (NCTC 6430)<br>Kmen 22. J. Tosic. | 1958 |
| 339 | IFO 3289<br>Kmen Kondo 35. | 1958 |
| 340 | IFO 3290<br>Kmen Kondo 36. | 1958 |
| 351 | VŠCHT 1951 (CBS). | |

**Acetobacter suboxydans** var. **nonacetum** nov. var.

| | | |
|---|---|---|
| 341 | IFO 3254<br>Kmen Kondo 10. | 1958 |

**Acetobacter turbidans** Cosbie, Tosic et Walker

| | | |
|---|---|---|
| 332 | NCIB 6249 (NCTC 6249, ATCC 9325)<br>Kmen NRRL B-570. T. K. Walker. *J. Inst. Brew.*, 1941, **47,** 382. | 1958 |
| 333 | NCIB 6427 (NCTC 6427)<br>Kmen 16. J. Tosic. | 1958 |

**Acetobacter viscosus** Shimwell

| | | |
|---|---|---|
| 334 | NCIB 6426 (NCTC 6426)<br>Kmen II. J. Tosic. Isolován ze zákalu v pivě. *J. Inst. Brew.*, 1936, **42,** 586. | 1958 |

**Acetobacter xylinum** (Brown) Holland

| | | |
|---|---|---|
| 134 | NCIB 1375 (NCTC 1375)<br>Kmen Delft 183, NCTC 1375. A. J. Kluyver. *Biochem. Z.*, 1931, **233,** 129. | |
| 135 | VŠCHT 1951 (CBS). | |
| 335 | NCIB 8034 (ATCC 10245)<br>Laura C. Stewart, R. H. Vaughn. | 1958 |
| 336 | NCIB 8246<br>Kmen Aschner, J. Senez. Tvorba osmotických membrán. | 1958 |

**Acetobacter xylinum** var. **africanum**

| | | |
|---|---|---|
| 337 | NCIB 7029 (NCTC 7029)<br>T. K. Walker, Univ. Manchester, 1945. | 1958 |



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**Acetobacter xylinum** var. **maltovorans**
136 NCIB 8623 1958
W. Verhoeven, kmen L 32.

**Acetogluconobacter dioxyacetonicus** Asai
345 IFO 3272 1958
Kmen Kondo 30.

346 IFO 3271 1958
Kmen Kondo 07.

viz dále též Bacterium orleanense, Bacterium vini acetati, B. xylinoides

**Aerobacter aerogenes Kruse** (Beijerinck)
137 VŠCHT 1951

138 VŠCHT (ATCC 8308) 1951
L. W. Parr

140 NCIB 8153 (ATCC 8329) 1957
Kmen WOO, A. H. Eggerth. Tvorba histaminu z histidinu.

142 NCIB 5938 (NCTC 5938) 1958
Kmen 601, typ II., R. D. Gray.

143 NCIB 8521 1958
Kmen NRC. Canad. 474 W. H. Cook. Tvorba 2,3-butylenglykolu. *Industr. Engng. Chem., Canad. J. Res.*, 1946, F. 24, 107.

**Aerobacter cloacae** (Jordan) Bergey et al.
144 NCIB 5920 (NCTC 5920) 1958
Kmen 502, R. D. Gray.

323 NCIB 8151 (ATCC 10 699) 1958
Kmen PC 3B. Margaret Pittman. *J. Bact.* 1946, **51,** 19.

**Agrobacterium radiobacter** (Beijerinck et van Delden) Conn
145 NCIB 8149 (ATCC 6466)
Achromobacter radiobacter (kmen 36) N. R. Smith.

**Agrobacterium rhizogenes** (Riker et al.) Conn
146 NCIB 8196 1956
Kmen NRRL B-193.

**Agrobacterium tumefaciens** (Smith et Townsend) Conn
147 NCIB 8150 (ATCC 4720) 1956
Phytomonas tumefaciens, kmen A. I. I. L. Baldwin. *J. Agric. Res.*, 1930, **41,** 507.

**Achromobacter hartlebii** (Jensen) Bergey et al.
356 NCIB 8129 (ATCC 365) 1958
Bacterium hartlebii, E. G. Hastings. Denitrifikující kmen. Kochův kmen.

**Achromobacter lacticum** Bergey et al.
357 NCIB 8209 1958
Kmen NRRL B-552.

**Achromobacter radiobacter** Bergey et al., viz Agrobacterium radiobacter

**Alcaligenes faecalis** Castellani et Chalmers
148 NCIB 8156 (ATCC 8750, kmen 16) 1958
H. J. Conn.



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**Arthrobacter simplex** (Jensen) Lochhead
385 ATCC 6946 (NCTC 4215) 1958
H. L. Jensen. Isolován z rýžového pole. *Proc. Linn Soc. N. S. W.* 1933, **58,** 181, Corynebacterium simplex.

**Arthrobacter ureafaciens** (Krebs et Eggleston) Clark
181 NCIB 7811 (NCTC 7811, ATCC 7562) 1958
Corynebacterium creatinovorans, kmen NC, R. J. Dubos. Oxydace kreatininu. *J. Biol. Chem.* 1938, 121, 429. *Internat. Bull. Bact. Nomen. and Taxon.* 1955, **5**/3/111

**Azotobacter agilis** Beijerinck
353 NCIB 8002 (ATCC 9570, kmen 36) 1958
Azomonas I. S. Winogradsky, kmen 36 N. R. Smith, Mannitol negativní. R. L. Starkey.

**Azotobacter agilis Jakutiae** nov. sp.
404 E. G. Afrikjan, ANA 1959

**Azotobacter chroococcum** Beijerinck
149 NCIB 8515 (ATCC 7498, NCTC 1865) 1958
Kmen 44, N. R. Smith, D. Burk kmen C-5 *J. Agric. Res.* 1942, **65,** 173.

150 NCIB 8003 (ATCC 4412) 1958
Kmen X50, E. B. Fred, N. R. Smith kmen 7.

**Azotobacter indicus** Starkey et De
354 NCIB 8005 (ATCC 9540) 1958
Kmen 57, N. R. Smith, D. Burk, kmen 10A; R. L. Starkey.

355 NCIB 8597 (ATCC 9037) 1958
Kmen 10, R. L. Starkey; *Soil. Sci.*, 1939, **47,** 337.

**Azotobacter nigricans** nov. var.
407 E. G. Afrikjan, ANA, 1959
Kmen A-$20_1$

**Azotobacter vinelandii**
352 NCIB 8004 (ATCC 9104) 1958
Azotobacter agilis, P. W. Wilson. *Ind. Eng. Chem.* 1943, **35,** 354.

405 E. G. Afrikjan, ANA 1959

**Bacillus acetoethylicus** Northrup, Ashe et Senier, viz Bacillus macerans

**Bacillus brevis** Migula emend Ford
153 NCIB 8598 (ATCC 8185) 1958
R. J. Dubos kmen B. G. Produkce gramicidinu a tyrocidinu. *J. Exp. Med.*, 1941, **73,** 629. Původní gramicidinový kmen.

152 NCIB 7577 (NCTC 7577) 1957
Kmen G 15, T. Gibson.

**Bacillus cereus** Frankland et Frankland
424 NCIB 8849 (ATCC 11778) 1959
Kmen Waksman O. Pravděpodobně totožný s kmenem NCIB 8012, ATCC 9634. W. A. Randall, kmen PCI 213, stanovení puromycinu, chlorteteracyklinu a oxytetracyklinu.



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154 NCIB 8122 (ATCC 10701) 1957
Kmen 5, A. Dornbush. Stanovení aureomycinu v tělních tekutinách.

**Bacillus cereus** var. **mycoides** (Flügge) Smith et al.
373 VŠCHT 1951

**Bacillus circulans** Jordan emend. Ford
155 NCIB 8144 (ATCC 9966) 1957
Kmen PCI 221, W. A. Randall. Stanovení streptomycinu.

**Bacillus coagulans** Hammer
156 NCIB 8041 (ATCC 10545) 1957
Bacillus dextrolacticus N. R. Smith kmen 784 C. H. Werkman. Produkce *d*-mléčné kyseliny.

**Bacillus dextrolacticus** Andersen et Werkman, viz Bacillus coagulans

**Bacillus macerans** Schardinger
158 NCIB 1068 (NCTC 1068) 1956
Bacillus acetoethylicus, J. H. Northrup

**Bacillus megaterium** de Bary
159 NCIB 8291 (ATCC 9885) 1957
Kmen 4R 6259, J. W. Foster. Stanovení streptomycinu,
Kmen Cornell 90.

160 NCIB 8508 (ATCC 10778) 1956
Kmen NRRL B-938, W. C. Haynes. Produkce vitaminů $B_{12}$ a riboflavinu. Transformace steroidů.

374 BÚ ČSAV 1959

**Bacillus mesentericus** Trevisan
161 VŠCHT 1951
Bacillus subtilis

**Bacillus pumilus** Gottheil
167 NCIB 8081 (ATCC 6632) 1958
Kmen 247 N. R. Smith, 732 Amer. Mus. of Nat. History Bacillus mesentericus.

**Bacillus polymyxa** (Prazmowski) Migula
162 NCIB 8158 (ATCC 842) 1958
A. J. Kluyver, N. R. Smith, kmen 1105.

163 NCIB 8094 (ATCC 10401) 1958
P. G. Stansly. Produkce polymyxinu, N. R. Smith, kmen 2010. *J. Bact.* 1947, **54**, 549.

164 VŠCHT (NCTC 1419) 1951

165 VŠCHT (NCTC 1380) 1951

166 VŠCHT (ATCC 8523) 1951
Evelyn B. Tilden, N. R. Smith, kmen 354. *J. Bact.*, 1942, **43**, 527. Tvorba bakteriální amylázy.

**Bacillus sphaericus** Neide
168 NCIB 8216 1958
386 ATCC 10 208 1958
N. R. Smith, kmen 966.



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416 J. L. Peel, ARC Unit for Microbiol., Univ. Sheffield (ATCC 12844, NCIB 8867) 1960
Kmen CO 8, oxydace kyseliny kapronové.

**Bacillus subtilis** Cohn emend. Prazmowski

169 NCIB 8062 (ATCC 9945) 1957
Kmen 712, N. R. Smith. Produkce kyseliny *d*-glutamové, *J. Biol. Chem.*, 1942, **145,** 415.

170 NCIB 8159 (ATCC 9466) 1957
N. R. Smith, kmen 1088. Kmen PCI 220, NRRL-B-558 W. A. Randall. Stanovení streptomycinu a penicilinu, *Science*, 1945, **101,** 365; *J. Bact.* 1945, **49,** 411.

171 VŠCHT (NCTC 6346, NCIB 6346) 1951
Kmen S 243, N. R. Smith.

425 NCIB 8054 (ATCC 6633) 1959
Kmen 231, N. R. Smith, PCI kmen 219. Produkce subtilinu. Stanovení streptomycinu a chlortetracyklinu. *Arch. Biochem.* 1944, **4,** 297.

**Bacillus thiaminolyticus** Matsukawa et Misawa

448 NCIB 8698 (ATCC 11376) 1959
Produkuje thiaminázu. *Acta Scholae Medicinalis Universitatis Kioto, Japan* 1952, **30,** 127.

**Bacterium acidipropionici** var. **rubrum** C. B. van Niel viz Propionibact. rubrum

**Bacterium cadaveris** Gale

178 NCTC 6578 (NCIB 6578) 1958
E. F. Gale. Stanovení l-lysinu (dekarboxylace), synthesa acetylasparagové kyseliny: S. R. Mardašev, Lu-Lu-Shan, J. A. Romakov, *Mikrobiologija* **28,** 1959, 641—646. N. S. Ferry kmen 04414, *J. Biol. Chem.*, 1944, **156,** 401.

**Bacterium coli anaerogenes** Lembke, viz Escherichia anaerogenes.

**Bacterium gluconicum** Hermann, viz Acetobacter gluconicus 112.

**Bacterium hartlebii** Jensen viz Achromobacter hartlebii.

**Bacterium kuetzingianum** (Hansen) Kluyver viz Acetobacter kuetzingianus. Henneberg popsal následující druhy octových bakterií, jejich popis je uveden v 6. vydání Bergey's Manual of Determination Bacteriology (1948), nikoliv však již ve vydání sedmém (1957). Z důvodu zachování původnosti je abecedně řadíme pod „Bacterium".

**Bacterium orleanense** Henneberg

115 NCIB 4938 1956
Acetobacter orleanense Henneberg, R. R. Butlin, Chem. Res. Lab., Teddington, *Die deutsche Essigind.*, NO-11-18, 1906, *Cent. f. Bakt., II. Abt.* 1906, **17,** 792.

116 VŠCHT 1951
Acetobacter orleanense Henneberg.

**Bacterium vini acetati** Henneberg

131 VŠCHT 1951



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338 NCIB 4939 (NCTC 4939) 1958
Bacterium vini acetati K. R. Butlin.

**Bacterium xylinoides** Henneberg
132 VŠCHT 1951

**Betabacterium caucasicum** Orla-Jensen, viz Lactobacillus caucasicus

**Brevibacterium helvolum** (Zimmermann) Lochhead
183 NCIB 8605 1958
Corynebacterium helvolum, kmen Jensen 163. Z půdy. *Proc. Linn. Soc. N. S. W.*, 1934, **59**, 37.

**Brevibacterium lines** (Weigmann) Breed
412 R. Dumais, Provincial Dairy School, Quebec, Canada 1959

**Butyribacterium rettgeri** Barker et Haas
414 H. A. Barker, University of California, California, USA 1959

**Cellulomomas cellasea** (Kellermann et al.) Bergey et al.
179 NCIB 8078 (ATCC 487) 1958
Kmen 124, N. R. Smith.

**Cellulomonas flavigena** (Kellermann et Mc Beth), Bergey et al.
180 NCIB 8073 (ATCC 482) 1958
Kmen 134, N. R. Smith. *Zbl. Bakt.* 1912, **34**, 488.

**Clostridium** sp.
455 NCIB 8657 1959
Kmen A-40 E. Mc Coy, A-8 G. A. Ledingham. Silně fermentuje škrob a pektin.

**Corynebacterium equi Magnusson**
184 VŠCHT 1951
Corynebacterium hoagii (Morse) Eberson.

**Corynebacterium flaccumfaciens** (Hedges) Dowson
182 NCIB 8604 1956
Div. of Bact. and Dairy Res., Canad. Dept. Agric., kmen 706

**Corynebacterium helvolum** (Zimmermann) Kisskalt et Berend, viz Brevibacterium helvolum.

**Corynebacterium hoagii** (Morse) Eberson, viz Corynebacterium equi.

**Corynebacterium mediolanum** Neurede, Bergey, Bergey non nominat
185 NCIB 7206 (NCTC 7206) 1956
Eneoliet Moline, Milan, oxydace steroidů.

**Corynebacterium creatinovorans** viz Arthrobacter ureafaciens

**Corynebacterium paurometabolum** Steinhaus
187 VŠCHT 1951
Corynebacterium xerosis Lehmann et Neumann.

**Corynebacterium pseudodiphteriae** Eberson
186 VŠCHT 1951

**Corynebacterium simplex** Jensen, viz Arthrobacter simplex.

**Corynebacterium sepedonicum** (Spieckermann et Kotthoff) Steptason et Burkholder
358 IFO 3306 1958



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**Corynebacterium xerosis** Lehman et Neuman viz Corynebacterium pauro-metabolum.

**Cytophaga hutchinsonii** Winogradsky
190 NCIB 1750 (NCTC 1750) 1956
Bacterium cytophaga, P. H. Gray.

**Erwinia amylovora** (Burill) Winslow et al.
409 W. G. Dowson, Botany School, Cambridge 1959
Kmen 211.

**Erwinia carotovora** O. Lysenko, BÚ ČSAV (W. G. Dowson, Cambridge) 1960
433 Kmen D 415.

**Escherichia anaerogenes** Bergey et al.
191 NCIB 4174 (NCTC 4174) 1957
Bacterium coli anaerogenes, kmen Davis.

**Escherichia coli** (Migula) Castellani et Chalmers
192 NCIB 8109 (ATCC 9723a) 1958
R. R. Roepke, kmen 273—384 (Kys. *p*-aminobenzoová⁻), *J. Biol. Chem.*, 1946, **164,** 789.

193 NCTC 7020 (NCIB 7020, ATCC 10787) 1958
E. F. Gale, Univ. Cambridge, 1945. Stanovení argininu.

195 NCIB 7271 typ I (NCTC 7271) 1957
Kmen F. 1319, Betty C. Hobbs.

196 NCIB 8257 typ II (NCTC 8063) 1957
Betty C. Hobbs, kmen A 762.

382 NCIB 8582 (ATCC 9723g) 1958
R. R. Roepke, kmen 550-460, uracil⁻, cytosin⁻ nebo isocytosin⁻. R. R. Roepke.

383 NCIB 8583 (ATCC 1117) 1958
Kmen 70-462. Stanovení thyminu.

384 NCIB 8113 (ATCC 9723e) 1958
R. R. Roepke, kmen 403-230, glycin⁻ nebo serin⁻.

427 NCIB 8876 (ATCC 9661) 1959
R. R. Roepke, kmen 1572-228. J. O. Lampden, stanovení argininu. *J. Bact.* 1944, **48,** 401.

428 NCIB 8877 (ATCC 9663) 1959
Kmen R. R. Roepke 532-171. J. O. Lampden, stanovení methioninu. *J. Bact.* 1944, **48,** 401.

429 NCIB 8878 (ATCC 11105) 1959
Kmen 113-3 Davis. P. R. Burkholder. Stanovení vitaminu $B_{12}$.

430 NCIB 8571 1959
V. Ruding, stanovení ornithinu. *J. Bact.*, 1952, **64,** 455.

431 NCIB 8110 (ATCC 9723b) 1959
Kmen 303-138, R. R. Roepke, nicotinamid⁻ nebo kyselina nikotinová⁻.

432 NCIB 8112 (ATCC 9723d) 1959
Kmen 558-228, R. R. Roepke, threonin⁻.



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**Escherichia freundii** (Braak) Yale
327 NCIB 3735 (NCTC 3735) 1958
A. J. Kluyver, trimethylenglykol z glycerolu. *J. Bact.* 1932, **23,** 167.

**Flavobacterium aquatile** Bergey et al. (Frankland et Frankland)
199 NCIB 8535 (ATCC 8735) 1958
Kmen Taylor.

**Flavobacterium aurantiacum** (Frankland et Frankland) Bergey et al.
324 NCIB 8204 1958
Kmen NRRL B-184

**Flavobacterium denitrificans** (Lehmann et Neumann) Bergey et al.
325 NCIB 8205 1958
Kmen NRRL B-927.

**Flavobacterium esteroaromaticum** (Omelianski) Bergey et al.
326 NCIB 8186 (ATCC 8091) 1955
C. P. Hegarty.

**Flavobacterium flavescens** (Pohl) Bergey et al.
201 NCIB 8187 (ATCC 8315) 1958
Kmen 72, C. Darling. *J. Bact.* 1941, **42,** 83.

**Flavobacterium peregrinum** Stapp et Spicher
200 VŠCHT 1951
F. buccalis (Chester) Bergey et al.

202 VŠCHT 1951
F. fulvum (Zimmermann) Chester.

**Gluconoacetobacter cerinus** var. **ammoniacus** Agai
347 IFO 3267 1958
Kmen Kondo 39.

349 IFO 3268 1958
Kmen Kondo 21.

**Gluconoacetobacter cerinus** Agai
IFO 3262 1958
Kmen Kondo 32.

**Chromobacterium chocolatum** Knutsen
207 NCIB 8181 (ATCC 7319) 1957
Chromobacterium oranginum, M. H. Knutsen

**Chromobacterium indicum** Topley et Wilson
209 NCIB 2847 (NCTC 2847) 1957
Kmen R. 5. Serratia indica. R. S. Breed. *J. Bact.* 1926, **12,** 76, 1928, **16,** 163.

**Chromobacterium iodinum** Davis, viz Pseudomonas iodinum

**Chromobacterium janthinum** (Zopf) Holland
208 NCIB 8507 1957
A. C. Thaysen

**Chromobacterium oranginum** Knutsen, viz Chromobacterium chocolatum

**Chromobacterium prodigiosum** Topley et Wilson, viz Serratia marcescens



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**Chromobacterium violaceum** (Schroeter) Bergonzini
212 NCIB 7917 (NCTC 7917) 1957
Kmen FBA 2, V. G. Collins

**Chromobacterium viscosum** Grimes
359 NCIB 8180 (NCTC 2416, ATCC 6918) 1958
Isolován z másla. *Zbl. Bakt.*, 1927, *Abt.* II., **72,** 367

**Lactobacillus acidophilus** (Moro) Holland
375 Maxa, ZVMK 1959

**Lactobacillus acidophilus** (Moro) Holland
419 NCIB 8795 (ATCC 11506) 1959
Kmen R-26. Stanovení desoxyribonukleových kyselin, E. Hoff-Jergensen. *Biochem. J.*, 1951, **50,** 400.

**Lactobacillus arabinosus** Fred, Peterson et Anderson, viz Lactobacillus plantarum

**Lactobacillus brevis** (Orla-Jensen) Bergey et al.
220 NCIB 8038 (ATCC 8287) 1956
L. pentoaceticus, kmen 269 Y, R. H. Vaughn stanovení cytosinu a uracilu. *J. Biol. Chem.* 1947, **168,** 1.

251 VŠCHT 1951
L. pentoaceticus

252 NCIB 947 (NCTC 947, ATCC 367) 1957
E. B. Fred, isolován ze siláže. Použit pro zkvašování pentos na kyselinu octovou. *J. Biol. Chem.* 1919, **39,** 347; 1920, **42,** 175.
L. pentoaceticus.

**Lactobacillus brevis** var. **rudensis**
221 NCIB 4617 (NCTC 4617) 1956
J. G. Davis

**Lactobacillus casei** ε viz Lactobacillus helveticus

**Lactobacillus buchneri** (Henneberg) Bergey et al.
222 NCIB 8007 (ATCC 4005) 1957
C. S. Pederson, F. L. Mickle. *N. Y. Agric. Exp. Sta. Tech. Bull.* 110, 1925.

**Lactobacillus bulgaricus** (Luerssen et Kühn) Holland
223 NCIB 76 (NCTC 76) 1956
Kmen Massol.

224 NCIB 8589 (ATCC 10812) 1956
J. M. Sherman, kmen 09. Produkce (?) (Catalogue of Strains NCIB 1956, str. 19) kyseliny orotové, *J. Biol. Chem.* 1950, **186,** 737 však kyselina orotová⁻.

225 NCIB 2889 (NCTC 2889, ATCC 521) 1956
W. R. Albus, původní Mečnikovův kmen

376 Maxa, ZVMK 1959

454 ATCC 10812 1959
J. M. Sherman, kmen 09, kyselina orotová⁻. *J. Biol. Chem.*, 1950, **186,** 737.



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**Lactobacillus casei** (Orla-Jensen) Holland

226 NCIB 8019 (ATCC 9595) 1956
Kmen 4R 2127, J. L. Stokes, stanovení kyseliny asparagové, serinu, fenylalaninu a tyrosinu. Produkce d-mléčné kys. *J. Biol. Chem.*, 1945, **157,** 651.

227 NCIB 8010 (ATCC 7469) 1956
F. M. Strong, stanovení biotinu, pyridoxalu, riboflavinu, kyseliny nikotinové, pantothenové a listové.

228 VŠCHT 1951

**Lactobacillus casei epsilon** Fender viz Lactobacillus helveticus

**Lactobacillus caucasicus** (Beijerinck)

417 NCIB 8120 (ATCC 8007) 1957
Kmen Ke 10, C. S. Pederson, z kefírových zrn. Betabacterium caucasicum.

**Lactobacillus delbrückii** (Leichmann) Beijerinck

231 NCIB 7473 (NCTC 7473, ATCC 11979) 1957
M. B. Brown, stanovení kys. asparagové, serinu a kyseliny glutamové. *J. Biol. Chem.*, 1945, **157,** 651.

232 NCIB 8130 (ATCC 9649) 1956
Kmen Calvert, R. P. Tittsler, kmen 730, produkce kyseliny mléčné.

321 IFO 3534 1958

**Lactobacillus fermenti** Beijerinck

233 VŠCHT (ATCC 9338, NCIB 6991) 1951
H. P. Sarett, kmen 36, stanovení thiaminu, histidinu, methioninu, threoninu. *J. Biol. Chem.* 1925, **64,** 643.

235 NCIB 5221 (NCTC 5221) 1956
R. H. Vaughn.

**Lactobacillus frigidus** Bhandari et Valker

236 NCIB 8518 1957
T. K. Walker, isolován z piva.

**Lactobacillus fructovorans** Charlton, Nelson et Werkman

237 NCIB 5223 (NCTC 5223) 1956
R. H. Vaughn, Iowa State Coll. *J. Sci*, 1934, **9,** 1.

**Lactobacilus gracile** Bergey et al.

238 NCIB 5222 (NCTC 5222) 1957
R. H. Vaughn, původ Osterwalder.

**Lactobacillus helveticus** (Orla-Jensen) Holland

239 NCIB 6557 (NCTC 6557) 1956
J. G. Davis.

240 NCIB 4113 (NCTC 4113) 1956
Kmen ε, Fender, syn. L. casei epsilon.

**Lactobacillus lactis** (Orla-Jensen) Holland

243 NCIB 8011 1957
Kmen Dorner,



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**Lactobacillus leichmanii** Bergey et al.

244 ATCC 7830 1959
R. P. Tittsler, kmen 313, kmen L. d. 5. Stanovení vitaminu $B_{12}$. *J. Biol. Chem.*, 1948, **176,** 1465. Stanovení thymidinu.

**Lactobacillus pastorianus** (Van Laer) Bergey et al.

390 NCIB 8033 (NCTC 4955, ATCC 8291) 1958
Isoloval J. L. Shimwell z piva.

**Lactobacillus pentoaceticus** Fred, Peterson et Davenport, viz Lactobacillus brevis

**Lactobacillus plantarum** (Orla-Jensen) Holland

217 NCIB 8030 1957
L. arabinosus 17-5 Glaxo-Labs. Ltd., 1950.

218 VŠCHT 1951
L. arabinosus Fred, Peterson, Andersen.

248 NCIB 8184 (NCTC 7200, ATCC 10241) 1957
Marjory Stephenson, produkce acetylcholinu.

250 NCIB 3254 (NCTC 3254) 1956
Kmen CC72, isoloval W. Sadler

449 ATCC 8014 (NCIB 6376) 1959
Lactobacillus arabinosus, Elizabeth Mc Coy, kmen 17-5. Stanovení biotinu, kyseliny nikotinové a p-aminobenzoové. *J. Biol. Chem.* 1945, **157,** 141 a 265.

**Lactobacillus thermophilus** Ayers et Johnson

447 NCIB 8119 (ATCC 8317) 1959
M. L. Speck.

**Leptothrix** sp.

411 typ $X_2$ Westminster
B. Lacey, Westminster School of Medicine, London. 1959

**Leuconostoc citrovorum** (Hammer) Huckert et Pederson

253 NCIB 7837 (NCTC 7837, ATCC 8081) 1956
Pediococcus cerevisiae Balcke, Streptococcus citrovorus, kmen 32, B. W. Hammer, *J. Biol. Chem.*, 1948, **176,** 165, *J. Bact.* 1953, **65,** 482, *J. Biol. Chem.*, 1949, **177,** 533, 545. Tvorba citrovorum faktoru.

**Leuconostoc dextranicum** (Beijerinck) Hucker et Pederson

316 NCIB 3354 (NCTC 3354, ATCC 8086) 1956
Kmen 22, C. S. Pederson. Isolován z kvasících bobů.

317 IFO 3349 (ATCC 8086) 1958
viz 316

318 IFO 3347 1958
Kmen NRRL B-640.

**Leuconostoc mesenteroides** (Cienkowski) van Tieghem

256 NCIB 6109 (NCTC 6109) 1956
Kmen VIIA, A. Cunningham, isolován ze siláže.

312 NCIB 8022 (ATCC 9135) 1958
W. Gingrich, kmen 535. Thiamin⁻, calcium pantothenát⁻ a kys. nikotinová⁻.



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313 NCIB 8031. 1958
Kmen P 60, Glaxo.

314 NCIB 8172 (ATCC 8357) 1957
J. A. Alford, Mc Cleskey, typ F.

315 NCIB 8590 (ATCC 10830) 1958
Kmen NRRL B-512 V, produkce dextranu ze sacharosy.

320 IFO 3076 (NCIB 8018, ATCC 8042 jako Streptococcus sp.) 1958
Kmen P-60, stanovení argininu, kys. asparagové, cystinu, glutamové kyseliny, glycinu, histidinu, isoleucinu, leucinu, lysinu, methioninu, fenylalaninu, prolinu, serinu, threoninu, tryptofanu, tyrosinu, valinu. *J. Biol. Chem.* 1947, **168,** 51; dtto 1949, **177,** 533, dtto 1944, **156,** 715.

450 NCIB 8644 1959
Kmen 10100, E. E. Fitzgerald. Stanovení riboflavinu, *Anal. Chem.* 1948, **20,** 81. Tento kmen odpovídá více druhu Streptococcus zymogenes než Leuconostoc mesenteroides.

**Microcyclus aquaticus** Orskow
410 Orskow, St. Seruminstitut, Kodaň 1959

**Micrococcus citreus** Migula, viz Staphylococcus aureus

**Micrococcus candidus** Cohn
258 VŠCHT 1951

**Micrococcus flavus Trevisan**
392 IFO 3242 (NCIB 8166, ATCC 10 240) 1958
Kmen 13021, Stanley, PCI kmen 1216, stanovení bacitracinu.

**Micrococcus luteus** (Schroeter) Cohn
423 P. Tate, Mollano Institute of Biology, Downing Street, Cambridge, England. 1959
Kmen S 23.

**Micrococcus lysodeikticus Fleming**
393 IFO 3333 (ATCC 4698) 1958
Testování aktivity lysozymu, *Lancet*, 1929, **1,** 217.

**Micrococcus pyogenes aureus** Rosenbach Zopf, viz Staphylococcus aureus

**Micrococcus pyogenes** var. **albus** (Rosenbach) Schroeter
394 IFO 3340 1958
Kmen SP

**Micrococcus subflavus** Flügge
396 IFO 3062 1958

**Mycobacterium butyricum** Bergey et al.
266 NCIB 8548 (ATCC 362) 1956
Grassberger

**Mycobacterium phlei** Lehmann et Neumann
267 VŠCHT (NCTC 525) 1951

**Myxococcus fulvus** (Cohn emend. Schroeter) Jahn
413 B. N. Singh, Central Drug Research Inst., Lucknow, India 1959

**Pediococcus cerevisiae** Balcke, viz Leuconostoc citrovorum



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**Phenolbacterium** sp. Academia Sinica, Čína 1959
401 Kmen 502A, Yan Zan Yin, Institute of Microbiology, Wuchang. Silná oxydace fenolu v odpadních vodách.

402 Academia Sinica, Čína 1959
Kmen 420, Yan Zan Yin, Institute of Microbiology, Wuchang. Silná oxydace fenolu v odpadních vodách.

**Phytomonas tumefaciens** Bergey et al., viz Agrobacterium tumefaciens

**Propionibacterium arabinosum** Hitchner
439 NCIB 5958 (NCTC 5958, ATCC 4965) 1959
E. R. Hitchner, *J. Bact.* 1934, **28,** 473.

**Propionibacterium freudenreichii** van Niel
268 NCIB 5959 (NCTC 5959., ATCC 6207) 1957
Kmen 33, R. P. Tittsler, kmen 53-W Werkman, E. R. Hitchner Kmen 33. Produkce vitaminu $B_{12}$.

**Propionibacterium jensenii** van Niel
440 NCIB 8069 (ATCC 4869) 1959
Bacterium acidipropionici, C. B. van Niel
Kmen 1, isolován ze sýra Gouda.

**Propionibacterium pentosaceum** van Niel
269 NCIB 5961 (NCTC 5961) 1957
P. shermanii. J. P. Sherman, isolován z ementálského sýra.

**Propionibacterium peterssonii** van Niel
441 NCIB 5962 (NCTC 5962, ATCC 4870) 1959
Kmen 20, C. B. van Niel, isolován z ementálského sýra.

**Propionibacterium raffinosaceum** Werkman et Kendall
442 NCIB 8900 1959
J. Janicki.

**Propionibacterium rubrum** van Niel
443 NCIB 8068 (ATCC 4871) 1959
Bacterium acidipropionici var. rubrum C. B. van Niel; kmen 23 isolován z podmáslí.

**Propionibacterium shermanii** van Niel
270 NCIB 5964 (NCTC 5964, ATCC 4866) 1957
Kmen 6, C. B. van Niel, z ementálského sýra.

**Propionibacterium technicum** van Niel
271 NCIB 5965 (NCTC 5965, ATCC 4873) 1957
C. B. van Niel, isolován ze sýra.

**Propionibacterium thoenii** van Niel
444 NCIB 5966 (ATCC 4874) 1959
C. B. van Niel; kmen 15, z ementálského sýra.

**Propionibacterium zeae** Hitchner
445 NCIB 5967 (ATCC 4964, NCTC 5967) 1959
E. R. Hitchner, *J. Bact.*, 1934, **28,** 473.

**Proteus vulgaris** Hauser
272 VŠCHT 1951
(mirabilis)



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|---|---|---|
| 273 | NCIB 67 (NCTC 67)<br>Kmen X 19, Arkwright, k Weil-Felixově reakci | 1957 |
| 274 | NCIB 2462<br>Kmen Enniskillen, W. J. Wilson, *J. Hyg. Camb.*, 1927, **26**, 374. | 1957 |
| 275 | NCIB 3307 (NCTC 3307, ATCC 6897)<br>A. Felix, kmen HX2. | 1957 |
| **Pseudomonas aeruginosa** (Schroeter) Migula | | |
| 276 | NCIB 6750 (NCTC 6750) | 1956 |
| 277 | NCIB 8295 (ATCC 10 145)<br>F. Kavanagh, testování antibiotik. *J. Nutrition* 1955, **56**, 437. | 1956 |
| 278 | NCIB 8626 (ATCC 9027)<br>C. P. Hegarty. | 1956 |
| 361 | IFO 3445<br>Fujino, kmen HD, z ledvin. | 1958 |
| 362 | IFO 3453<br>IID, kmen Kobayashi, typ B. | 1958 |
| 363 | IFO 3448<br>Fujino, kmen OK, z krve. | 1958 |
| 364 | IFO 3455<br>IID, kmen Noguchi, typ D. | 1958 |
| 365 | IFO 3080<br>Kmen Kondo et Takeda, 760. | 1958 |
| **Pseudomonas fluorescens** Migula | | |
| 281 | NCIB 8027 (ATCC 9721)<br>Kmen 112, N. R. Smith. | 1957 |
| 282 | NCIB 950 (NCTC 950)<br>Kmen 0,45. | 1956 |
| 283 | NCIB 3756 (NCTC 3756)<br>Kmen Spiers, Dorothy Steabben, z cerebrospinálního moku. | 1956 |
| 285 | VŠCHT | 1951 |
| 367 | IFO 3459<br>A. Saito, kmen NRRL B-10 | 1958 |
| 368 | IFO 3461<br>Pseudomonas reptilivora Caldwell et Ryerson. A. Saito, NRRL kmen B-6bs. | 1958 |
| 369 | IFO 3081<br>Kmen Kondo et Takeda 727. | 1958 |
| **Pseudomonas fragi** (Eichhloz) Hauss emend. Hussong et al. | | |
| 370 | IFO 3458<br>A. Saito NRRL, kmen B-25. | 1958 |
| **Pseudomonas chloraphis** (Guignard et Sauvageau) Bergey et al. | | |
| 286 | VŠCHT ATCC 9446<br>NRRL, kmen B-560 | 1951 |



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**Pseudomonas iodinum** (Davis) Tobie
210 VŠCHT (ATCC 9897) 1951
W. C. Tobie American Cyanamid Co., Stamford Conn, 1945, H. Mc Ilwain. Produkce iodininu. *Zblt. Bakt.* Abt. II, 1939, **100,** 273.

**Pseudomonas mildenbergii** Bergey et al.
289 NCIB 8176 (ATCC 795) 1956
Pseudomonas cyanogena. B. W. Hammer, *Iowa Agric. Expt. Sta. Res. Bull.* 15.

**Pseudomonas ovalis** Chester
290 NCIB 8296 (ATCC 8209) 1956
Kmen 77, N. R. Smith. Produkce kyseliny ketoglukonové.

**Pseudomonas putida** (Trevisan) Migula
291 VŠCHT (ATCC 4359) 1951
A. Stewart.

**Pseudomonas riboflavina** Foster
292 NCIB 8177 (ATCC 9526) 1956
Kmen eR. 3337; J. W. Foster, oxydace riboflavinu na lumichrom. *J. Bact.*, 1944, **47,** 27.

**Pseudomonas saccharophila** Doudoroff
293 NCIB 8570 1958
M. Doudoroff, při studiu mechanismu tvorby sacharosy v rostlinách. *Enzymologia*, 1940, **9,** 59. *J. Biol. Chem.*, 1943, **148,** 67, *Arch. Biochem.*, 1947, **14,** 29.

**Pseudomonas syncyanea** (Ehrenberg) Migula
295 VŠCHT (ATCC 9979) 1951
W. C. Tobie, Kluyver, A. J.

**Pseudomonas taetrolens** Haynes, nonc. nov.
371 IFO 3460 1958
Pseudomonas graveolens, A. Saito, kmen NRRL B-14

**Rhizobium leguminosarum** Frank emend. Baldwin et Fred
408 H. Katznelson, Bact. Division Science Service Building Ottawa, Canada. 1959

**Sarcina alba** Zimmerman
296 VŠCHT 1951

**Sarcina flava** de Bary
297 VŠCHT 1951

**Sarcina lutea** Schroeter
298 VŠCHT 1951

**Sarcina subflava** Ravenel
299 VŠCHT 1951

**Serratia indica** (Eisenberg) Bergey et al., viz Chromobacterium indicum

**Serratia marcescens** Bizio
206 VŠCHT 1951
Chromobacterium fuchsinum Boekhout et de Vries



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360 NCIB 8266 (NCTC 8706) 1958
Chromobacterium prodigiosum Topley et Wilson, kmen 82B, Jean Horton, Produkce marcescinu. *J. Gen. Microbiol.*, 1950, **4,** 417.

397 IFO 3046 1958
Bacillus prodigiosus Flügge 01 Sakaguchi

398 IFO 3050 1958
Bacillus prodigiosus Flügge 19 Sakaguchi

399 IFO 3057 1958
Bacillus prodigiosus Flügge 82 Sakaguchi

**Serratia plymuthica** (Lehmann et Neumann) Bergey et al.
400 IFO 3055 1958
Bacillus plymouthensis Migula (Sakaguchi)

**Serratia marcescens** var. **kilensis**
211 VŠCHT (ATCC 9986) 1951
W. A. Randall, S. A. Waksman. Stanovení streptomycinu.

**Staphylococcus aureus** Rosenbach
263 VŠCHT 1951
Micrococcus pyogenes aureus Rosenbach Zopf.

391 IFO 3332 (ATCC 9510) 1958
Micrococcus citreus Migula

395 IFO 3061 (ATCC 6538 P) 1958
W. A. Randall, kmen 209 P. Micrococcus pyogenes var. aureus, stanovení penicilinu a j. antibiotik.

**Streptococcus citrovorus** Hammer, viz Leuconostoc citrovorum

**Streptococcus cremoris** Orla-Jensen
421 NCIB 8783 1959
Kmen IP5, E. I. Garvie. Stanovení nisinu. *J. Gen. Microbiol.*, 1950, **4,** 70.

**Streptococcus durans** Sherman et Wing
379 Maxa, ZVMK 1958

**Streptococcus epidemicus** Davis, viz Streptococcus pyogenes

**Streptococcus faecalis** Andrewes et Horder
304 NCIB 8032 1956
Kmen R. Glaxo.

305 NCIB 8104 1956
Kmen R

306 VŠCHT (NCIB 6783, NCTC 6783) 1951
Kmen Dunn, E. F. Gale.

307 VŠCHT (WLCC 1595) 1951

308 NCIB 8123 (ATCC 8043) 1956
S. lactis R (kmen R) E. E. Snell, Univ. Texas. Stanovení kyseliny listové, pyridoxalu a pyridoxaminu, kyseliny glutamové, methioninu, tryptofanu, valinu, tyrosinu (dekarboxylace). *J. Amer. Chem. Soc.* 1945, **67,** 196; *Proc. Soc. Exptl. Biol. Med.*, 1946, **61,** 158.



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| | | |
|---|---|---|
| 426 | NCIB 8128<br>Kmen R, E. E. Snell, stanovení threoninu. | 1959 |
| 446 | skupina D, Lancefield<br>ATCC 11700<br>Kmen 10 CI, *J. Biol. Chem.*, 1952, **194,** 849. | 1959 |

**Streptococcus lactis** (Lister) Löhnis

| | | |
|---|---|---|
| 301 | NCIB 662 (NCTC 662)<br>Kmen Thaysen II, z mléka. Produkce *l*-mléčné kyseliny. | 1957 |
| 302 | NCIB 6681 (NCTC 6681)<br>Kmen O. J., A. T. R. Mattick. Produkce *d*-mléčné kyseliny. | 1957 |
| 303 | NCIB 5982 (NCTC 5982)<br>Kmen Teddington, A. C. Thaysen. | 1957 |
| 451 | Maxa, ZVMK<br>Kmen 91 z Polska. Produkce nisinu. | 1959 |
| 452 | Maxa, ZVKM<br>Československý kmen Ni 2, produkce nisinu. | 1959 |
| 453 | ATCC 11454 (NCIB 8586)<br>skupina N, Lacefield<br>R. P. Tittsler, kmen Berridge X 13. Produkce nisinu. | 1959 |

**Streptococcus lactis R** viz Streptococcus faecalis

**Streptococcus pyogenes** Rosenbach (skupina A, Lancefield)

| | | |
|---|---|---|
| 309 | NCIB 2297 (NCTC 2297, ATCC 624)<br>Streptococcus epidemicus, kmen X40 D. W. Wooley, Davis 40. Stanovení Wooleyova růstového faktoru. *J. Exp. Med.* 1941, **73,** 487. | 1956 |
| 310 | NCIB 8190 (ATCC 9342)<br>Skupina A, Lancefield, W. A. Randall, kmen PCI 1311, stanovení bacitracinu. | 1956 |
| 311 | VŠCHT | 1951 |

**Streptococcus thermophilus** Orla-Jensen

| | | |
|---|---|---|
| 378 | Maxa, ZVMK | 1959 |

**Xanthomonas hyacinthi** (Wakker) Dowson

| | | |
|---|---|---|
| 422 | W. G. Dowson, Botany School, Cambridge<br>Kmen 242 | 1960 |

**Zymomonas mobilis** (Lindner) Kluyver et van Niel 1958

| | | |
|---|---|---|
| 372 | Pseudomonas lindneri, T. Wikén, Technische Hogeschool, Delft, Holland. | |



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# KVASINKY A KVASINKOVITÉ MIKROORGANISMY

**Ascoidea rubescens** Brefeld
001 CBS 1958

**Ashbya gossypii** (Ashby et Nowell) Guilliermond
401 ATCC 8717 1957
W. J. Robbins, produkce riboflavinu.

**Brettanomyces anomalus** Custers
643 ATCC 10559 (CBS) 1958
NRRL kmen Y-1415.

**Brettanomyces bruxellensis** Kuff. et v. Laer
641 CBS 72 1958

**Brettanomyces claussenii** Custers
642 CBS 76 1958

**Brettanomyces lambicus** Kuff. et v. Laer
644 CBS 75 1958

**Bullera alba** (Hanna) Derx
921 CBS 501 1958

**Candida albicans** (Robin) Berkhout
651/1 CBS 562 1958
651/2 VŠCHT 1951

**Candida arborea** viz Candida utilis 653/10

**Candida guilliermondii** (Cast.) Langeron et Guerra
0657/1 VŠCHT 1951
0657/2 VŠCHT 1951
Candida tropicalis var. rhagii

**Candida gulliermondii** (Cast.) Langeron et Guerra
var. **nitratophila** Diddens et Lodder
viz Candida utilis 653/3

**Candida humicola** (Daszewska) Diddens et Lodder
654 CBS 571 1958

**Candida intermedia** (Ciferri et Ashford) Langeron et Guerra
00651 ATCC 12089 1959
B. A. Bourne, Antibiotikum proti Physalospora tucumanensis. *Phytopath.*, 1955, **45**, 37.

**Candida krusei** (Cast.) Berkhout
0660 ATCC 749 1959
A. Castellani, produkce riboflavinu

**Candida japonica** Diddens et Lodder
655 CBS 1906 1958



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**Candida melibiosi** Lodder et v. Rij
00653 CBS 1909 1959

**Candida melinii** Diddens et Lodder
00652 CBS 601 1959

**Candida mycoderma** (Rees) Lodder et v. Rij
658/1 VŠCHT 1959
Mycoderma cerevisiae

658/2 VŠCHT 1951
Mycoderma cerevisiae

**Candida pelliculosa** Red.
0654 VŠCHT 1951

**Candida pelliculosa** Red.
var. **cylindrica** Diddens et Lodder
0655 VŠCHT 1951

**Candida pseudotropicalis** (Cast.) Basgal
652/1 VMP 1958
Torula cremoris

652/2 VŠCHT 1951
Torula casei

652/3 VŠCHT 1951
Torula casei

652/4 VŠCHT 1951
Torula casei

652/5 ATCC 9767 1959
P. R. Burkholder, kmen 26. Biotin−, niacin−, kyselina patothenová−, thiamin−, *J. Bact.* 1944, **48,** 385.

652/6 ATCC 2512 1959
Saccharomyces fragilis, Torula cremoris, F. W. Tanner. Stanovení kyseliny nikotinové.

**Candida pseudotropicalis** (Castellani) Basgal
var. **lactosa** (Harrison) Diddens et Lodder
0653/1 VŠCHT 1951
Torula kefyr.

0653/2 VŠCHT 1951

**Candida pulcherrima** (Lindner) Windisch
659/1 VŠCHT 1951

659/2 VŠCHT 1951

**Candida reukaufii** (Grüss) Diddens et Lodder
0656/1 VŠCHT 1951

0656/2 VŠCHT 1951
Nectaromyces reukaufii

0656/3 VŠCHT 1951



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| | | |
|---|---|---|
| 0656/4 | VŠCHT<br>Nectaromyces alpinus | 1951 |
| 0656/5 | VŠCHT<br>Nectaromyces alpinus | 1951 |
| **Candida robusta** Diddens et Lodder | | |
| 0658 | VŠCHT | 1951 |
| **Candida solani** Lodder et v. Rij | | |
| 657 | CBS 1908 | 1958 |
| **Candida tenuis** Diddens et Lodder | | |
| 656 | CBS 615 | 1958 |
| **Candida tropicalis** (Cast.) Berkhout | | |
| 0651/1 | BÚ ČSAV<br>Torula murmanica | 1956 |
| 0651/2 | ATCC 1369 1959<br>M. B. Church, kvasí pentosy, produkce krmného droždí ze sulfitových výluhů a xylosy. | 1959 |
| 0651/3 | V. I. Kudrjavcev, IMAN<br>Monilia murmanica | 1959 |
| **Candida tropicalis** (Castellani) Berkhout var. **lambica** (Kuff) Diddens et Lodder | | |
| 0652/1 | VŠCHT | 1951 |
| 0652/2 | VŠCHT | 1951 |
| **Candida tropicalis** (Castellani) Berkhout var. **rhagii** Diddens et Lodder | | |
| | viz Candida guilliermondii 0657/2 | |
| **Candida utilis** (Henneberg) Lodder et v. Rij | | |
| 653/1 | VŠCHT<br>Torulopsis utilis | 1951 |
| 653/2 | BÚ ČSAV<br>Torulopsis utilis var. major | 1956 |
| 653/3 | VŠCHT<br>C. guilliermondii var. nitratophila | 1951 |
| 653/4 | VŠCHT<br>Torula utilis | 1951 |
| 653/5 | VŠCHT<br>Torula utilis | 1951 |
| 653/6 | VŠCHT<br>Torula utilis | 1951 |
| 653/7 | VŠCHT<br>Torula utilis | 1951 |
| 653/8 | VŠCHT<br>Torula utilis | 1951 |
| 653/9 | VŠCHT<br>Torulopsis utilis | 1951 |



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653/10 VŠCHT 1951
Candida arborea

**Candida zeylanoides** (Cast.) Langeron et Guerra
0659 F. Blank, McGill University, Montreal, Canada 1959

**Cryptococcus albidus** (Saito) Skinner
612 VŠCHT 1951
Torulopsis albida

**Cryptococcus laurentii** (Kufferath) Skinner
611/1 VŠCHT 1951
Rhodotorula aurea

611/2 IFO 0372 1958
Torula aurea

**Cryptococcus luteolus** (Saito) Skinner
613 IFO 0411 1958
Torula luteola

**Debaryomyces disporus** (Beijerinck) Dekker
viz Saccharomyces bisporus

**Debaryomyces fabryi** Ota
viz Debaryomyces kloeckeri 364/2

**Debaryomyces guilliermondii** Dekker
viz Debaryomyces hansenii 361/3

**Debaryomyces hansenii** (Zopf) Lodder et v. Rij
361/1 VŠCHT 1951
Debaryomyces tyrocola

361/2 VŠCHT 1951
Debaryomyces tyrocola

361/3 ATCC 10619 1957
NRRL kmen Y-1448
Debaryomyces guilliermondii

**Debaryomyces kloeckeri** Guilliermond et Péju
364/1 ATCC 10 620 (CBS) 1957
NRRL kmen Y-1449.

364/2 ATCC 4143 1957
F. W. Weidmann
Debaryomyces fabryi

**Debaryomyces nicotianae** Giovannozzi
var. **minor** R. Ciferri
365 ATCC 9365 1957

**Debaryomyces subglobosus** (Zach) Lodder et v. Rij
363 CBS 1807 1957

**Debaryomyces tyrocola** Konokotina
viz Debaryomyces hansenii 361/1, 2

**Debaryomyces vini** Zimmermann
362 CBS 810 1957



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**Dipodascus uninucleatus** Biggs
002 CBS 1958

**Endomyces decipiens** (Tulasne) Rees
213 CBS 1964 1957

**Endomyces lactis** Windisch
212/1 VŠCHT 1951
Oidium lactis

212/2 CBS 1958
Oidium lactis

**Endomyces magnusii** Ludwig
211 VŠCHT 1951
Stanovení thiaminu, *Odincova E. N.: Mikrobiologičeskije metody opredělenija vitaminov, Izd. ANSSSR, Moskva,* 1949, str. 267.

**Endomycopsis balearica** Socias, Ramirez et Serra
317 CBS 2518 1959

**Endomycopsis bispora** (Beck) Dekker
313 CBS 1890 1957

**Endomycopsis capsularis** (Schiönning) Dekker
311/1 VŠCHT 1951

**Endomycopsis capsularis** (Schiönning) Dekker
311/2 VŠCHT 1951

**Endomycopsis fibuliger** (Lindner) Dekker
312 VŠCHT 1951

**Endomycopsis chodati** (Nechitch) Wickerham et Burton
316 CBS 2837 1959
NRRL, diploidní kmen, L. J. Wickerham et K. A. Burton, *J. Bact.* **63,** 449, 1952.

**Endomycopsis javanensis** (Klöcker) Dekker
314 ATCC 10628 (CBS) 1957
NRRL kmen Y-1483.

**Endomycopsis ohmeri** Etchells et Bell
318/1 CBS 2558 1959
"mating type" s E. ohmeri 318/2

318/2 CBS 2549 1959
"mating type" s. E. ohmeri 318/1

**Endomycopsis selenospora** (Nadson et Krassilnikov) Dekker
315 CBS 2562 1958

**Eremascus fertilis** Stoppel
111 CBS 2571 1957

**Eremothecium ashbyii** Guilliermond
402 CBS 1958
Produkce riboflavinu

**Fabospora macedoniensis** (Diddens et Lodder) Kudrjavzev
Viz Saccharomyces fragillis



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**Hanseniaspora guilliermondii** Pijper
viz Hanseniaspora valbyensis 381/1

**Hanseniaspora valbyensis** Klöcker

| | | |
|---|---|---|
| 381/1 | VŠCHT<br>Hanseniaspora guilliermondii | 1951 |
| 381/2 | ATCC 10631 (CBS)<br>NRRL kmen Y-1626. | 1957 |

**Hansenula anomala** (Hansen) H. et Sydow

| | | |
|---|---|---|
| 341/1 | VŠCHT | 1951 |
| 341/2 | VŠCHT | 1951 |
| 341/3 | VŠCHT | 1951 |

**Hansenula anomala** (Hansen) H. et P. Sydow
var. **ciferrii** (Lodder) Lodder et v. Rij

| | | |
|---|---|---|
| 349 | CBS 111 | 1958 |

**Hansenula californica** (Lodder) Wickerham

| | | |
|---|---|---|
| 343/1 | CBS 252 | 1957 |
| 343/2 | ATCC 10680<br>NRRL kmen Y-1425<br>Zygohansenula californica | 1957 |

**Hansenula minuta** Wickerham

| | | |
|---|---|---|
| 345 | CBS 1708 | 1957 |

**Hansenula mrakii** Wickerham

| | | |
|---|---|---|
| 344 | CBS 1707 | 1957 |

**Hansenula saturnus** (Klöcker) H. et Sydow

| | | |
|---|---|---|
| 347 | ATCC 2582<br>R. Chodat, kmen 105, NRRL kmen Y-1 | 1957 |

**Hansenula schneggii** (Weber) Dekker

| | | |
|---|---|---|
| 346 | CBS 113 | 1957 |

**Hansenula suaveolens** (Klöcker) Dekker

| | | |
|---|---|---|
| 342 | VÚKP | 1956 |

**Hansenula subpelliculosa** Bedford

| | | |
|---|---|---|
| 348 | CBS 115 | 1958 |

**Issatchenkia orientalis** Kudriavzev

| | |
|---|---|
| 004 | V. I. Kudrjavcev, IMAN, 1959, kmen 354 |

**Kloeckera africana** (Kloecker) Janke

| | |
|---|---|
| 663 | ATCC 10632<br>E. M. Mrak, NRRL kmen Y-1274 |

**Kloeckera apiculata** (Rees) Janke

| | | |
|---|---|---|
| 661/1 | VŠCHT<br>Saccharomyces apiculatus | 1951 |
| 661/2 | IFO 0151 | 1958 |
| 661/3 | IZ 148 | 1958 |



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661/4 NCYC (NCIB 768) 1959
Kloeckera brevis B 768, stanovení thiaminu, *Mücke D.: Einführung in mikrobiologische Bestimmungsverfahren, VEB, G. Thieme, Leipzig*, 1957, *str.* 81. *Hoff-Jörgensen E.* a *Hansen B.: Acta chem. Scand.* **9**, 1955, 562.

661/5 Kloeckera brevis B 768, viz 661/4.

**Kloeckera brevis** Lodder
viz Kloeckera apiculata 661/4, 5

**Kleockera javanica** (Klöcker) Janke
665 CBS 282 1958

**Kloeckera jensenii** (Klöcker) Janke
662 ATCC 10637 (CBS) 1958
NRRL kmen Y-1571

**Kloeckera magna** (De Rossi) Janke
664 IZ 1398 (FTDD 55-46) 1958

**Lipomyces lipoferus** (den Dooren de Jong) Lodder et v. Rij
512 IFO 0673 (NCYC 165) 1958
Harrison, F. C., Torulopsis lipofera.

**Lipomyces starkeyi** Lodder et v. Rij
511 CBS 792 1957

**Monilia murmannica** viz Candida tropicalis 0651/3

**Mycoderma cerevisiae** Desm.
viz Candida mycoderma

**Mycotorula japonica** Yamaguchi
951/1 prof. Yamaguchi, Inst. of Applied Microbiology, University of Tokyo, 1957, kmen Zatsu 1—8.

951/2 var. KH Zatsu 1—9

**Nadsonia elongata** Konokotine
391 ATCC 10644 (CBS) 1957
NRRL kmen Y-1568.

**Nadsonia fulvescens** (Nadson et Konokotine) Sydow
392 ATCC 10645 1957
NRRL kmen Y-991, C. B. van Niel.

**Nectaromyces alpinus** Kluyver
viz Candida reukaufii 0656/4, 5

**Nectaromyces reukaufii** (Grüss) H. et P. Sydow
viz Candida reukaufii 0656/2

**Oidium lactis** Fres.
viz Endomyces lactis 1

**Octosporomyces japonicus** (Yukawa) Kudriavzev
viz Schizosaccharomyces versatilis 223/3

**Pichia farinosa** (Lindner) Hansen
331 VŠCHT 1951
Zygopichia farinosa



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**Pichia fermentans** Lodder
334/1 VÚKP 1957

334/2 ATCC 10651 (CBS) 1957
L. J. Wickerham, NRRL kmen Y-1619, stanovení thiaminu, *Odincova, E. N. Mikrobiologičeskije metody opredelenija vitaminov, Izd. ANSSSR, Moskva*, 1959, str. 267.

**Pichia membranaefaciens** Hansen
332/1 ATCC 2254 1957
F. W. Tanner, NRRL kmen Y-847

332/2 VÚKP 1957

332/3 CBS 107 1958

**Pichia mogii** Ohara et Nonomura
335 IFO 0606 1959

**Pichia polymorpha** Klöcker
333 CBS 186 1957

**Pityrosporum ovale** (Bizz.) Cast. et Chalmers
631 CBS 1878 1958

**Rhodotorula aurantiaca** (Saito) Lodder
812/1 ATCC 9536 1959
W. J. Robbins, stanovení *p*-aminobenzoové kyseliny a thiaminu, *Science*, 1944, **100**, 85.

812/2 VŠCHT 1951
Rhodotorula colostri

812/3 VŠCHT 1951
Rhodotorula longissima

**Rhodotorula aurea** (Saito) Lodder
viz Cryptococcus laurentii 611/1

**Rhodotorula bronchialis** (Cif. et Red.) Lodder
viz Rhodotorula glutinis 813/2

**Rhodotorula colostri** (Castelli) Lodder
viz Rhodotorula aurantiaca 812/2

**Rhodotorula flava** (Saito) Lodder
816 VŠCHT 1951

**Rhodotorula glutinis** (Fres) Harrison
813/1 VŠCHT 1951

813/2 VŠCHT 1951
Rhodotorula bronchialis

813/3 VŠCHT 1951
Rhodotorula suganii

813/4 VŠCHT 1951
Rhodotorula glutinis var. infirmo-miniata

813/5 VŠCHT 1951
Rhodotorula gracilis



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**Rhodotorula glutinis** (Fres. Harrison)
var. **rubescens** (Saito) Lodder
814 VŠCHT 1951
Rhodotorula glutinis var. saitoi

**Rhodotorula glutinis** (Fres.) Harrison
var. **infirmo-miniata** (Okunuki) Lodder
viz Rhodotorula glutinis 813/4

**Rhodotorula glutinis** (Fres) Harrison
var. **saitoi** (Cif. et Red.) Lodder
viz Rhodotorula glutinis var. rubescens

**Rhodotorula gracilis** Rennerfelt
viz Rhodotorula glutinis 813/5

**Rhodotorula longissima** Lodder
viz Rhodotorula aurantiaca 812/3

**Rhodotorula minuta** (Saito) Harrison
817 VŠCHT 1951

**Rhodotorula mucilaginosa** (Jörg) Harrison
811/1 VŠCHT 1951
811/2 VŠCHT 1951
811/3 VŠCHT 1951
Rhodotorula mucilaginosa var. pararosea

**Rhodotorula mucilaginosa** (Jörg.) Harrison
var. **pararosea** (Castellani) Lodder
viz Rhodotorula mucilaginosa 811/3

**Rhodotorula musilaginosa** (Jörg.) Harrison
var. **plicata** Lodder
viz Rhodotorula rubra 815/2

**Rhodotorula rubra** (Demme) Lodder
815/1 VŠCHT 1951
815/2 VŠCHT 1951
Rhodotorula mucilaginosa var. plicata
815/3 VŠCHT 1951
Rhodotorula rubra var. curvata
815/4 VŠCHT 1951
Rhodotorula rubra var. longa

**Rhodotorula rubra** (Demme) Lodder
var. **curvata** Lodder
viz Rhodotorula rubra 815/3

**Rhodotorula rubra** (Demme) Lodder
var. **longa** Lodder
viz Rhodotorula rubra 815/4

**Rhodotorula suganii** (Okunuki) Lodder
viz Rhodotorula glutinis 813/3



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**Saccharomyces acidifaciens** (Nickerson) Lodder et v. Rij
0327 ATCC 8766 1957
W. J. Nickerson, NRRL kmen Y-1011 Zygosaccharomyces acidifaciens

**Saccharomyces anamensis** Will et Heinrich
viz Saccharomyces cerevisiae 321/7, 8

**Saccharomyces apiculatus** Rees
viz Kloeckera apiculata 661/1

**Saccharomyces bailii** Lindner
0330 CBS 680 1957

**Saccharomyces bisporus** (Naganishi) Lodder et v. Rij 1959
00326 V. I. Kudrjavcev, IMAN (CBS), Debaryomyces disporus. Stanovení celé molekuly vitaminu $B_1$ a vitaminu $B_6$. *Odincova, E. N.: Mikrobiologičeskije metody opredelenija vitaminov, Izd. ANSSSR, Moskva*, 1959, str. 272—279.

**Saccharomyces bayanus** Saccardo
00321 Microbiology Research Institute, Canada Dept. of Agric. Ottawa, Zygosaccharomyces bayanus 1959

**Saccharomyces carlsbergensis** Hansen
0323/1 ATCC 9080 1957
Hillman Hospital, kmen 4228
Stanovení vitaminu $B_6$, pantothenové kys. a inositolu.

0323/2 V. I. Kudrjavcev, IMAN, 1959
Kmen z kvasného ústavu Berlin, stanovení inositolu

**Saccharomyces cerevisiae** Hansen
321/1 VŠCHT 1951

321/2 Frágner, P., Mykologická laboratoř KHES, Praha 1957

321/3 Stuchlík, Výzkumný ústav potravinárského priemyslu, Bratislava 1957
biotin−, kmen $T_1$/54/B

321/4 VŠCHT 1951
Saccharomyces sake

321/5 VŠCHT 1951
Saccharomyces sake

321/6 VŠCHT 1951
Saccharomyces sake

321/7 ATCC 4126 1957
Saccharomyces anamensis
"Amylo process yeast"

321/8 CBS 1200 1957
Saccharomyces anamensis

321/9 VŠCHT 1951
(rasa XII)

321/10 VŠCHT 1951
(rasa XII)



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321/11 VŠCHT 1951
(rasa XII)

321/12 VŠCHT 1951
(rasa M)

321/13 VŠCHT 1951
(rasa M) Stanovení aktidionu (cykloheximid)

321/14 ATCC 7752 1959
R. J. Williams, Kmen "G. M.", NRRL kmen Y-973 (rasa Gebrüder Mayer). Stanovení biotinu, inositolu, kys. pantothenové, pyridoxinu. Stanovení aktidionu (cykloheximid).

321/15 V. I. Kudrjavcev, IMAN 1959
rasa Gebrüder Mayer, stanovení inositolu, kys. pantothenové, pyridoxinu.

321/16 V. I. Kudrjavcev, IMAN 1959
(rasa Fleischmann)

321/17 V. I. Kudrjavcev, IMAN 1959
(leningradská rasa) stanovení kys. pantothenové; *Odincova, E. N.: Mikrobiologičeskije metody opredelenija vitaminov Izd. ANSSSR, Moskva*, 1959, str. 264—267.

321/18 Laciný, Spojené lihovary Praha-Libeň 1960
VNIISP — rasa Ja (Jakubovskij)

**Saccharomyces cerevisiae** Hansen
var. **ellipsoideus** Hansen, Dekker

322/1 VŠCHT 1951

322/2 VŠCHT 1951

322/3 Frágner P., Mykologická laboratoř KHES, Praha 1957

322/4 ATCC 9841 1957
NCTC kmen 6969 (Pasteur), vinné kvasinky "Sauterne".

322/5 VŠCHT 1951
Saccharomyces turbidans

322/6 VŠCHT 1951
Saccharomyces turbidans

322/7 VŠCHT 1951
Saccharomyces turbidans

322/8 IZ 299 (ATCC 6037) 1957
Saccharomyces turbidans

322/9 ATCC 6037 (CBS) 1957
Saccharomyces turbidans

322/10 ATCC 9896 1959
K. Dittmer (rasa Fleischmann 139)
stanovení biotinu.

**Saccharomyces delbrueckii** Lindner

0321 CBS 399 1957



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**Saccharomyces delbrueckii** Lindner
var. **mongolicus** (Saito) Lodder et v. Rij

| | | |
|---|---|---|
| 0322/1 | ATCC 10600<br>NRRL kmen Y-409, Saccharomyces globosus | 1957 |
| 0322/2 | V. I. Kudrjavcev, IMAN<br>Zygosaccharomyces mongolicus<br>Stanovení biotinu: *Odincova E. N.: Mikrobiologičeskije metody opredelenija vitaminov, Izd. ANSSSR, Moskva* 1959, str. 259 až 262. | 1959 |

**Saccharomyces exiguus** Hansen

| | | |
|---|---|---|
| 0329 | CBS 379 | 1957 |

**Saccharomyces fermentati** (Saito) Lodder et v. Rij

| | | |
|---|---|---|
| 0325 | CBS 818 | 1957 |

**Saccharomyces fragilis** Jörgensen

| | | |
|---|---|---|
| 326/1 | VŠCHT | 1951 |
| 326/2 | VŠCHT | 1951 |
| 326/3 | VŠCHT | 1951 |
| 326/4 | VŠCHT | 1951 |
| 326/5 | ATCC 8635<br>W. Henneberg, kmen 236, NRRL kmen Y-1190 | 1959 |
| 326/6 | V. I. Kudrjavcev, IMAN<br>jako Fabospora macedoniensis, kmen 351 Mrak/USA. Stanovení kyseliny nikotinové, *Odincova E. N.: Mikrobiologičeskije metody opredělenija vitaminov, Izd. ANSSSR, Moskva,* 1959, str. 279. | 1959 |

**Saccharomyces globosus** Osterwalder
viz Saccharomyces delbrueckii var. mongolicus 0322/1

**Saccharomyces chevalieri** Guilliermond

| | | |
|---|---|---|
| 325/1 | ATCC 9804<br>NCTC, kmen 2054. | 1957 |
| 325/2 | ATCC 10604 (CBS)<br>NRRL kmen Y-1546<br>Saccharomyces mangini | 1957 |

**Saccharomyces chodati** Steiner
viz Saccharomyces steineri 0328/1, 2

**Saccharomyces intermedius** Hansen
viz Saccharomyces willianus 328/2, 3, 4.

**Saccharomyces lactis** Dombrowski

| | | |
|---|---|---|
| 0324 | VŠCHT | 1951 |

**Saccharomyces logos** v. Laer et Denamur

| | | |
|---|---|---|
| 327/1 | VŠCHT | 1951 |
| 327/2 | VŠCHT | 1951 |
| 327/3 | VŠCHT | 1951 |

**Saccharomyces mangini** Guill.
viz Saccharomyces chevalieri 325/2

**Saccharomyces marxianus** Hansen

| | | |
|---|---|---|
| 00327/1 | V. I. Kudrjavcev, IMAN<br>Kmen 734. Zygofabospora marxiana. Stanovení kys. nikotinové: | 1959 |



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*Odincova E. N.: Mikrobiologičeskije metody opredělenija vitaminov, Izd. ANSSSR, Moskva*, 1959, str. 279.

00327/2 V. I. Kudrjavcev, IMAN 1959
Kmen 737. Zygofabospora marxiana

**Saccharomyces mellis** (Fabian et Quinet) Lodder et v. Rij 1959
00322 J. F. T. Spencer, kmen P3a ATCC 12572
Produkce vícesytných alkoholů

**Saccharomyces miso** α Mogi
00324 IFO 0320 1959

**Saccharomyces oviformis** Osterwalder
0326 ATCC 9769 1957
P. R. Burkholder, kmen 233.

**Saccharomyces pastorianus** Hansen
323/1 VŠCHT 1951
323/2 VŠCHT 1951

• **Saccharomyces rouxii** Boutroux
324/1 IZ 274 (ATCC 10384) 1957
Zygosaccharomyces japonicus var. soya 1.
324/2 ATCC 11069 (CBS) 1957
Zygosaccharomyces japonicus var. soya 2
324/3 ATCC 10383 (CBS) 1957
NRRL kmen Y-1561
Zygosaccharomyces major

**Saccharomyces sake** Yabe
viz Saccharomyces cerevisiae 321/4, 5, 6

**Saccharomyces steineri** Lodder et v. Rij
0328/1 IZ 638 1957
Saccharomyces chodati
0328/2 ATCC 2367 1957
R. Chodat, kmen 53, NRRL kmen Y-140

**Saccharomyces turbidans** Hansen
viz Saccharomyces cerevisiae var. ellipsoideus 322/5, 8, 9

**Saccharomyces uvarum** Beijerinck
00323/1 R. H. Parsons, Canadian Breweries, Res. Division, Toronto (ATCC 10613) 1959
NRLL kmen Y-969
00323/2 CBS 395 1959

**Saccharomyces validus** Hansen
viz Saccharomyces willianus 328/5

**Saccharomyces willianus** Saccardo
328/1 ATCC 10615 1957
NRRL kmen Y-1566
328/2 VŠCHT 1951
Saccharomyces intermedius
328/3 IZ 254 1957
Saccharomyces intermedius



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| | | |
|---|---|---|
| 328/4 | ATCC 10602<br>NRRL kmen Y-1540, Saccharomyces intermedius | 1957 |
| 328/5 | ATCC 10614<br>NRRL kmen Y-830<br>Saccharomyces validus | 1957 |

**Saccharomycodes ludwigii** Hansen

| | | |
|---|---|---|
| 371/1 | VŠCHT | 1951 |
| 371/2 | VŠCHT | 1951 |
| 371/3 | VŠCHT | 1951 |
| 371/4 | VŠCHT | 1951 |

**Saenkia bispora** (Castelli) Kudriavzev

| | | |
|---|---|---|
| 003 | V. I. Kudrjavcev, IMAN<br>N. F. Saenko, kmen 110. *Odincova, E. N.: Mikrobiologičeskije metody opredělenija vitaminov, Izd. ANSSSR, Moskva,* 1959, str. 56. | 1959 |

**Schizosaccharomyces octosporus** Beijerinck

| | | |
|---|---|---|
| 222 | VŠCHT | 1951 |

**Schizosaccharomyces pombe** Lindner

| | | |
|---|---|---|
| 221/1 | VŠCHT<br>Stanovení inositolu, *Mücke D.: Einführung in mikrobiologische Bestimmungsverfahren, VEB G. Thieme, Leipzig,* 1957, str. 136. | 1951 |
| 221/2 | VŠCHT | 1951 |
| 221/3 | VŠCHT | 1951 |
| 221/4 | VŠCHT | 1951 |

**Schizosaccharomyces versatilis** Wickerham et Duprat

| | | |
|---|---|---|
| 223/1 | ATCC 9987<br>NRRL kmen Y-1026, *J. Bact.* 1945, **50,** 597. | 1957 |
| 223/2 | CBS 103 | 1958 |
| 223/3 | V. I. Kudrjavcev, IMAN<br>Octosporomyces japonicus No 127.<br>Stanovení inositolu, biotinu, pantothenové kys., vitaminu $B_1$, kys. nikotinové. *Odincova, E. N.: Mikrobiologičeskije metody opredělenija vitaminov,* Izd. *ANSSSR, Moskva,* 1959, str. 60, 65, 283. | 1959 |

**Schwanniomyces occidentalis** Klöcker

| | | |
|---|---|---|
| 351 | ATCC 2320<br>NRRL, kmen Y-121 | 1957 |

**Sporobolomyces albo-rubescens** Derx

| | | |
|---|---|---|
| 916 | CBS 482 | 1958 |

**Sporobolomyces gracilis** Derx

| | | |
|---|---|---|
| 915 | CBS 71 | 1958 |

**Sporobolomyces odorus** Derx

| | | |
|---|---|---|
| 914 | CBS 483 | 1958 |

**Sporobolomyces pararoseus** Olson et Hammer

| | | |
|---|---|---|
| 912 | VŠCHT | 1951 |



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**Sporobolomyces pollaccii** Verona et Cif.
viz Sporobolomyces roseus 913/3

**Sporobolomyces roseus** Kluyver et v. Niel

| | | |
|---|---|---|
| 913/1 | VŠCHT<br>Sporobolomyces salmoneus | 1951 |
| 913/2 | VŠCHT<br>Sporobolomyces salmoneus | 1951 |
| 913/3 | VŠCHT<br>Sporobolomyces pollaccii | 1951 |
| 913/4 | VŠCHT | 1951 |

**Sporobolomyces salmoneus** Derx
viz Sporobolomyces roseus 913/1, 2

**Sporobolomyces salmonicolor** (Fischer et Brebeck) Kluyver et v. Niel

| | | |
|---|---|---|
| 911/1 | VŠCHT | 1951 |
| 911/2 | VŠCHT | 1951 |
| 911/3 | VŠCHT | 1951 |
| 911/4 | VŠCHT | 1951 |

**Torula aeria** Saito
viz Torulopsis aeria

**Torula aurea** Saito
viz Cryptococcus laurentii 611/2

**Torula casei** Bernhauer
viz Candida pseudotropicalis 652/2, 3, 4

**Torula colliculosa** Hartmann
viz Torulopsis colliculosa

**Torula cremoris** Hammer et Cordes
viz Candida pseudotropicalis 652/1, 6

**Torula kefyr** nom. nud.
viz Candida pseudotropicalis var. lactosa 0653/1

**Torula luteola** Saito
viz Cryptococcus luteolus

**Torula murmannica** nom. nud.
viz Candida tropicalis 0651/1

**Torula utilis** Henneberg
viz Candida utilis

**Torulopsis aeria** (Saito) Lodder

| | | |
|---|---|---|
| 624 | IFO 0377<br>Torula aeria | 1958 |

**Torulopsis albida** (Saito) Lodder
viz Cryptococcus albidus

**Torulopsis anomala** Lodder et v. Rij

| | | |
|---|---|---|
| 0625 | CBS 1731 | 1958 |



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| | | |
|---|---|---|
| **Torulopsis bacillaris** (Kroemer et Krumbh.) Lodder | | |
| 0623 | CBS 843 | 1958 |
| **Torulopsis candida** (Saito) Lodder | | |
| 621/1 | Olšanský, ZVMK, | 1958 |
| 621/2 | IFO 0405 (= IFO 0380) | 1958 |
| **Torulopsis colliculosa** (Hartmann) Saccardo | | |
| 626 | IFO 0381 | 1958 |
| | Torula colliculosa | |
| **Torulopsis etchelsii** Lodder et v. Rij | | |
| 0624 | CBS 1751 | 1958 |
| **Torulopsis famata** (Harrison) Lodder et v. Rij | | |
| 623 | Maxa, ZVMK | 1958 |
| | Torulopsis minor | |
| **Torulopsis gropengiesseri** (Harrison) Lodder | | |
| 0626 | ATCC 10669 | 1958 |
| | NRRL kmen Y-1445, CBS | |
| **Torulopsis holmii** (Jörgensen) Lodder | | |
| 627 | CBS 135 | 1958 |
| **Torulopsis lactis-condensi** (Hammer) Lodder et v. Rij | | |
| 629 | CBS 52 | 1958 |
| **Torulopsis lipofera** (den Dooren de Jong) Lodder | | |
| | viz Lipomyces lipoferus | |
| **Torulopsis minor** (Poll. et Nann) Lodder | | |
| | viz Torulopsis famata | |
| **Torulopsis miso** α Mogi | | |
| 0628 | IFO 0436 | 1959 |
| **Torulopsis molischiana** (Zikes) Lodder | | |
| 628 | CBS 136 | 1958 |
| **Torulopsis sake** (Saito et Oda) Lodder et v. Rij | | |
| 625 | IFO 0435 | 1958 |
| **Torulopsis sphaerica** (Hammer et Cordes) Lodder | | |
| 622/1 | Maxa, ZVMK | 1958 |
| 622/2 | CBS 141 | 1958 |
| **Torulopsis stellata** (Kroemer et Krumbh.) Lodder | | |
| 0622 | CBS 157 | 1958 |
| **Torulopsis utilis** (Henneberg) Lodder | | |
| | viz Candida utilis | |
| **Torulopsis utilis** (Henneberg) Lodder | | |
| var. **major** | Thaysen et Morris | |
| | viz Candida utilis 653/2 | |
| **Torulopsis versatilis** (Etchells et Bell) Lodder et v. Rij | | |
| 0621 | CBS 1752 | 1958 |
| **Torulopsis xylinus** Tatsumi et Katagiri | | |
| 0627 | IFO 0454 | 1959 |



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**Trigonopsis variabilis** Schachner
671 CBS 1040 1958

**Trichosporon fermentans** Diddens et Lodder
714 CBS 2529 1951

**Trichosporon margaritiferum** (Stautz) Buchwald
712 CBS 2531 1958

**Trichosporon pullulans** (Lindner) Diddens et Lodder
711 CBS 2532 1958

**Trichosporon sericeum** (Stautz) Diddens et Lodder
713/1 CBS 2544 1958
713/2 VŠCHT 1951

**Zygofabospora krassilnikovi** Kudriavzev
005 V. I. Kudrjavcev, IMAN 1959

**Zygofabospora marxiana** (Hansen) Kudriavzev
viz Saccharomyces marxiqnus 00327/1, 2

**Zygohansenula californica** Lodder
viz Hansenula californica 343/2

**Zygopichia farinosa** (Lindner) Klöcker
viz Pichia farinosa

**Zygosaccharomyces acidifaciens** Nickerson
viz Saccharomyces acidifaciens

**Zygosaccharomyces japonicus** Saito
var. **soya** (Saito) Dekker
viz Saccharomyces rouxii 324/1, 2

**Zygosaccharomyces major** Tak. et Yuk.
viz Saccharomyces rouxii 324/3

**Zygosaccharomyces mongolicus** Saito
viz Saccharomyces delbrueckii var. mongolicus 0322/2



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# AKTINOMYCETY

**Actinomyces** viz též Streptomyces

**Actinomyces abicoensum** sp. nov. G. F. Gauze, INA N 5645 — 1960
1,19 *Serie Helvolus (Gauze)*

**Actinomyces acrimicini** sp. nov. G. F. Gauze, INA N 7699 — 1960
1,21 *Serie Griseus (Gauze)*

**Actinomyces albidus Duché** CBS — 1959
1,12

**Actinomyces albidoflavous** Duché VÚRV — 1957
1,3

**Actinomyces alborubidus** G. F. Gauze, INA N 5835/56 — 1960
1,23 *Serie Albus (Gauze)*

**Actinomyces albovinaceus** sp. nov. G. F. Gauze, INA N 273/53 — 1960
1,20 *Serie Albosporeus (Gauze)*

**Actinomyces antibioticus** (Waksman et Woodruff) Waksman et Henrici
1,16 G. F. Gauze, INA II 891 — 1960
1,17 G. F. Gauze, INA 8504 (NCIB 8504, ATCC 8663) — 1960

**Actinomyces atroolivaceus** sp. nov. G. F. Gauze, INA N 1580/53 — 1960
1,22 *Serie Griseus (Gauze)*

**Actinomyces aurantiogriseus** sp. nov. G. F. Gauze, INA N 7529/54 — 1960
1,18 *Serie Ruber (Gauze)*

**Actinomyces aureus** (Waksman et Curtis) Waksman et Henrici
1,13 G. F. Gauze, INA 3309 — 1960

**Actinomyces biverticillatus** sp. nov. G. F. Gauze, INA N 11189a — 1960
2,1 *Serie Ruber (Gauze)*

**Actinomyces badius** sp. nov. G. F. Gauze, INA N 1203/53 — 1960
2,2 *Serie Helvolus (Gauze)*

**Actinomyces bicolor** sp. nov. G. F. Gauze, INA N 5104 — 1960
2,3 *Serie Coerulescens (Gauze)*

**Actinomyces candidus** var. **alboroseus** G. F. Gauze, INA 4143/54 — 1960
3,17 *Serie Albus (Gauze)*

**Actinomyces carnosus** Millard et Burr
3,10 CBS Millard — 1959

**Actinomyces clavifer** Millard et Burr
3,11 CBS Millard — 1959



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**Actinomyces cinnamonensis** var. **proteolyticus** var. nov. 1960
G. F. Gauze, INA N 11579
3,12 *Serie Fuscus (Gauze)*

**Actinomyces coelicolor** (Müller) Krasilnikov
3,6 VÚRV 1957

**Actinomyces coelicolor** var. **flavus** G. F. Gauze, INA N 5636/54 1960
3,18 *Serie Violaceus (Gauze)*

**Actinomyces coeruleus** Baldacci
3,7 CBS Ciferri 1958

**Actinomyces coerulescens** sp. nov. G. F. Gauze, INA N 4562 1960
3,14 *Serie coerulescens (Gauze)*

**Actinomyces coeruleofuscus** sp. nov. G. F. Gauze, INA 5051/56 1960
3,16 *Serie coerulescens (Gauze)*

**Actinomyces coeruleorubidus** sp. nov. G. F. Gauze, INA N 12531/54 1960
3,15 *Serie coerulescens (Gauze)*

**Actinomyces cyaneofuscatus** sp. nov. G. F. Gauze, INA N 99/54 1960
3,13 *Serie Helvolus (Gauze)*

**Actinomyces daghestanicus** sp. nov. G. F. Gauze, INA N 12676/54 1960
4,4 *Serie Fuscus (Gauze)*

**Actinomyces diastaticus** (Krainsky) Waksman et Henrici
4,3 G. F. Gauze, INA 3315 1960

**Actinomyces felleus** Lindenbein
6,2 BÚ ČSAV 1957

**Actinomyces flaveolus** (Waksman) Waksman et Henrici
6,7 VÚRV 1957
6,14 G. F. Gauze, INA 3319 1960
6,18 G. F. Gauze, INA H 3185, 1960
(IFO 3407) Okami, Japonsko

**Actinomyces flaveolus** var. **rectus** var. nov. G. F. Gauze, INA N 10294 1960
6,23 *Serie Aureus (Gauze)*

**Actinomyces flavidovirens** sp. nov. G. F. Gauze, INA N 12287 1960
6,21 *Serie Helvolus (Gauze)*

**Actinomyces flavidovirens** var. **fuscus** var. nov. G. F. Gauze, 1960
INA N 6786/54
6,22 *Serie Helvolus (Gauze)*

**Actinomyces flavotricini** sp. nov. G. F. Gauze, INA N 3151 1960
6,19 *Serie Lavendulae Roseus (Gauze)*

**Actinomyces flavus** Millard et Burr
6,4 CBS 1957

**Actinomyces fradiae** (Waksman et Curtis) Waksman et Henrici
6,15 H. Zähner, ETH 5927 1960
tvoří streptothricin.



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6,16 ETH 17817 — 1960
tvoří aktinomycin X

6,17 ETH 16346 — 1960

**Actinomyces fumanus** sp. nov. G. F. Gauze, INA N 10256/54 — 1960
6,20 *Serie Fuscus (Gauze)*

**Actinomyces fumosus** Krasilnikov
6,8 VÚRV — 1957

**Actinomyces glaucescens** sp. nov. G. F. Gauze, INA N 2659 — 1960
7,28 *Serie coerulescens (Gauze)*

**Actinomyces globisporus** (Krasilnikov) Waksman
7,2 VÚRV — 1957

7,3 VÚRV — 1957

7,4 VÚRV — 1957

7,15 G. F. Gauze, INA 140 — 1960

**Actinomyces globisporus** var. **caucasicus** var. nov. G. F. Gauze, — 1960
7,26 INA N 13195/54
*Serie Helvolus (Gauze)*

**Actinomyces globisporus** var. **flavofuscus** var. nov.
7,27 G. F. Gauze, INA N 1565/53 — 1960
*Serie Helvolus (Gauze)*

**Actinomyces globosus** Krasilnikov
7,5 VÚRV — 1957

**Actinomyces griseoincarnatus** sp. nov. G. F. Gauze, INA 8070/54 — 1960
7,33 *Serie Chromogenes (Gauze)*

**Actinomyces griseoloalbus** sp. nov. G. F. Gauze, INA N 1875/54 — 1960
7,29 *Serie Albosporeus (Gauze)*

**Actinomyces griseomycini** sp. nov. G. F. Gauze, INA N 3777 — 1960
7,30 *Serie Griseus (Gauze)*

**Actinomyces griseorubens** sp. nov. G. F. Gauze, INA 6124/54 — 1960
7,31 *Serie Griseus (Gauze)*

**Actinomyces griseoruber** sp. nov. G. F. Gauze, INA 6974/54 — 1960
7,34 *Serie Violaceus (Gauze)*

**Actinomyces griseorubiginosus** G. F. Gauze, INA N 7712/57 — 1960
7,35 *Serie Violaceus (Gauze)*

**Actinomyces griseorubiginosus** var. **spiralis** G. F. Gauze, INA N 5962/54 — 1960
7,36 *Serie Violaceus (Gauze)*

**Actinomyces griseostramineus** sp. nov. G. F. Gauze, INA N 10381 — 1960
7,32 *Serie Aureus (Gauze)*

**Actinomyces griseus variabilis** n. subsp. G. F. Gauze, INA 776 — 1960
7,14

**Actinomyces griseus** (Krainsky) Waksman et Henrici
7,16 G. F. Gauze, INA 12647 — 1960



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| | | |
|---|---|---|
| 7,17 | G. F. Gauze, INA 6962<br>(CBS, NCIB 6962) | 1960 |
| 7,18 | G. F. Gauze, INA B-3<br>Okami, Japonsko | 1960 |
| 7,19 | G. F. Gauze, INA H-12<br>Okami, Japonsko | 1960 |
| 7,20 | G. F. Gauze, INA 7796<br>K. Hütter, Švýcarsko | 1960 |
| 7,21 | G. F. Gauze, INA 10971<br>(ATCC 10971, NCIB 8591) | 1960 |
| 7,22 | G. F. Gauze, INA 41<br>Okami, Japonsko | 1960 |
| 7,23 | G. F. Gauze, INA 3326<br>(ATCC 3326) | 1960 |
| 7,24 | G. F. Gauze, INA SN-14<br>Okami, Japonsko | 1960 |
| 7,25 | G. F. Gauze, INA G 24 | 1960 |
| **Actinomyces chromofuscus** sp. nov. G. F. Gauze, INA N 10637/54 | | 1960 |
| 9,4 | *Serie Chromogenes (Gauze)* | |
| **Actinomyces chrysomallus** Lindenbein | | |
| 9,2 | H. Zähner ETH 7733<br>tvoří aktinomycin C | 1960 |
| 9,3 | H. Zähner ETH 6240<br>tvoří actinomycin C | 1960 |
| **Actinomyces Kursanovii** sp. nov. G. F. Gauze, INA N 10294/54 | | 1960 |
| 12,1 | *Serie Aureus (Gauze)* | |
| **Actinomyces lateritius** sp. nov. G. F. Gauze, INA N 6993 | | 1960 |
| 13,5 | *Serie Roseoviolaceus (Gauze)* | |
| **Actinomyces litmocidini** sp. nov. G. F. Gauze, INA N 1883/55 | | 1960 |
| 13,6 | *Serie Violaceus (Gauze)* | |
| **Actinomyces longisporus** (Krasilnikov) Waksman | | |
| 13,4 | G. F. Gauze, INA 81/53 | 1960 |
| **Actinomyces malachiticus** sp. nov. G. F. Gauze, INA N 399/55 | | 1960 |
| 14,3 | *Serie Chrysomallus (Gauze)* | |
| **Actinomyces microflavus** (Krainsky) Waksman et Henrici | | |
| 14,2 | G. F. Gauze, INA 3332 | 1960 |
| **Actinomyces mutabilis** sp. nov. G. F. Gauze, INA N 472 | | 1960 |
| 14,4 | *Serie Chrysomallus (Gauze)* | |
| **Actinomyces nigrescens** sp. nov. G. F. Gauze, INA N 1800/54 | | 1960 |
| 15,1 | *Serie Nigrescens (Gauze)* | |
| **Actinomyces olivaceus** (Waksman) Waksman et Henrici | | 1960 |
| 16,6 | G. F. Gauze, INA H 6 | |
| 16,7 | H. Zähner, ETH kmen 13450<br>tvoří actinomycin I | 1960 |



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| | | |
|---|---|---|
| 16,8 | H. Zähner ETH 7437<br>tvoří granaticin | 1960 |
| 16,9 | H. Zähner ETH 7346<br>tvoří narbomycin | 1960 |
| 16,10 | G. F. Gauze, INA 7437 (ETH 7437)<br>ETH K. Hütter, Švýcarsko | 1960 |
| 16,11 | G. F. Gauze, INA 8238 (NCIB 8238) | 1960 |
| 16,12 | G. F. Gauze, INA 3200 (IFO 3200, CBS)<br>Okami, Japonsko | 1960 |
| **Actinomyces parvus** (Krainsky) Waksman et Henrici | | |
| 17,6 | G. F. Gauze, INA 306 | 1960 |
| 17,8 | G. F. Gauze, INA B 1255 | 1960 |
| **Actinomyces praecox** Millard et Burr | | |
| 17,5 | CBS Millard | 1959 |
| **Actinomyces purpeochromogenes** (Waksman et Curtis) Waksman et Henrici | | |
| 17,7 | G. F. Gauze, INA 3343 | 1960 |
| **Actinomyces roseochromogenes** (Jensen) Waksman et Henrici | | |
| 18,7 | G. F. Gauze, INA 3347 | 1960 |
| **Actinomyces roseolilacinus** sp. nov. G. F. Gauze, INA N 14250 | | 1960 |
| 18,8 | *Serie Lavendulae Roseus (Gauze)* | |
| **Actinomyces roseolus** sp. nov. G. F. Gauze, INA N 14263 | | 1960 |
| 18,9 | *Serie Lavendulae Roseus (Gauze)* | |
| **Actinomyces roseoviolaceus** sp. nov. G. F. Gauze, INA N 1461/54 | | 1960 |
| 18,11 | *Serie Roseoviolaceus (Gauze)* | |
| **Actinomyces roseoviridis** sp. nov. G. F. Gauze, INA N 3617 | | 1960 |
| 18,10 | *Serie Fradiae (Gauze)* | |
| **Actinomyces roseus Krainsky** viz Actinomyces roseochromogenes | | |
| **Actinomyces rubiginosohelvolus** sp. G. F. Gauze, INA N 10/53 | | 1960 |
| 18,12 | *Serie Helvolus (Gauze)* | |
| **Actinomyces rubiginosus** sp. nov. G. F. Gauze, INA N 11852 | | 1960 |
| 18,13 | *Serie Griseus (Gauze)* | |
| **Actinomyces ruber** (Krainsky) Waksman et Henrici | | |
| 18,2 | VÚRV | 1957 |
| 18,6 | G. F. Gauze, INA 360-2 (Kitaj) | 1960 |
| **Actinomyces setonii** Millard et Burr | | |
| 19,3 | CBS Millard | 1959 |
| **Actinomyces sulphureus** Gasperini | | |
| 19,4 | CBS I. P. Puntoni | 1959 |
| **Actinomyces toxytricini** sp. nov. G. F. Gauze, INA N 3425 | | 1960 |
| 20,1 | *Serie Lavendulae Roseus (Gauze)* | |
| **Actinomyces tricolor** Wollenweber viz Actinomyces violaceus ruber | | |



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**Actinomyces variabilis** sp. nov. G. F. Gauze, INA N 5557/54 1960
22,15 *Serie Chromogenes (Gauze)*

**Actinomyces variabilis** var. **roseolus** var. nov. G. F. Gauze, INA N 8820/54 1960
22,16 *Serie Chromogenes (Gauze)*

**Actinomyces venezuelae** var. **spiralis** var. nov. G. F. Gauze, INA N 13216/54 1960
22,14 *Serie Lavendulae Roseus (Gauze)*

**Actinomyces violaceorectus** sp. nov. G. F. Gauze, INA N 5962/54 1960
22,18 *Serie Violaceus (Gauze)*

**Actinomyces violaceus** (Rossi Doria) Gasp. emend. Baldacci
22,1 CBS Ciferri 1958

**Actinomyces violaceus-ruber** Waksman et Curtis
22,2 CBS 1957
Act. tricolor Wr.; Act. violaceus (R. D.) emend. Bald. var. violaceo-ruber (W. et C.) Bald.

**Actinomyces violaceus** var. **rubescens** var. nov.G. F. Gauze, INA N 12194 1960
22,17 *Serie Violaceus (Gauze)*

**Actinomyces violaceus** var. **violaceo-ruber** viz Actinomyces violaceus ruber

**Actinomyces violascens** sp. nov. G. F. Gauze, INA N 872/54 1960
22,13 *Serie Lavendulae Roseus (Gauze)*

**Actinomyces viridis** (Lombardo-Pellegrino emend. Krasilnikov) Waksman
22,9 G. F. Gauze, INA 3372 1960

**Actinomyces viridochromogenes** (Krainsky) Waksman et Henrici
22,5 VÚRV 1957

22,8 G. F. Gauze, INA N 3356 (ATCC 3356) 1960

22,10 G. F. Gauze, INA 9343, ETH 9343 K. Hütter, Švýcarsko 1960

22,11 G. F. Gauze, INA G 394 1960
(Okami Japonsko)

22,12 G. F. Gauze, INA 3113 (IFO 3113, CBS) 1960

**Streptomyces achromogenes** Okami et Umezawa
1,11 ATCC 12 767 1959
Y. Okami, kmen Z-4-1, *Japanese Med. J.*, 1953, 6.

**Streptomyces albus** (Rossi-Doria emend. Krainsky) Waksman et Henrici
1,1 ATCC 3114 1985

1,2 CBS 1958

**Streptomyces alboflavus** (Waksman et Curtis) Waksman et Henrici
1,8 IFO 3438, kmen NRRL B-1273 1958



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| | | |
|---|---|---|
| **Streptomyces albogriseolus** Denedict, Shotwell, Pridham, Lindenfelser et Haynes | | |
| 1,9 | IFO 3413, kmen NRRL B-1305 | 1958 |
| **Streptomyces albosporeus** (Krainsky) Bergey et al. | | |
| 1,10 | ATCC 3003 S. A. Waksman | 1958 |
| **Streptomyces annulatus** (Beijerinck emend. Krasilnikov) Waksman | | |
| 1,4 | ATCC 3307 S. A. Waksman | 1958 |
| **Streptomyces antibioticus** (Waksman et Woodruff) Waksman et Henrici | | |
| 1,5 | ATCC 8663, S. A. Waksman kmen 3435<br>Tvorba aktinomycinu. | 1957 |
| **Streptomyces aureofaciens** Duggar | | |
| 1,7 | IFO 3187 | 1958 |
| **Streptomyces aureus** (Waksman et Curtis) Waksman et Henrici | | |
| 1,6 | ATCC 3309, S. A. Waksman, kmen 371 | 1957 |
| **Streptomyces candidus** (Petruschky) | | |
| 3,1 | ATCC 4878, Sara A. Scudder, kmen 19741 | 1958 |
| **Streptomyces cellulosae** (Krainsky) Waksman et Henrici | | |
| 3,2 | ATCC 3313, S. A. Waksman | 1957 |
| 3,3 | CBS Krainsky | 1957 |
| **Streptomyces citreus** (Krainsky) Waksman et Henrici | | |
| 3,9 | ATCC 10 974 CBS<br>S. A. Waksman, kmen 3574. | 1959 |
| **Streptomyces coelicolor** (Müller) Waksman et Henrici | | |
| 3,5 | ATCC 10 147, S. A. Waksman, kmen 3034 | 1958 |
| **Streptomyces cylindrosporus** Krasilnikov | | |
| 3,8 | VÚRV | 1957 |
| **Streptomyces diastaticus** (Krainsky) Bergey et al. | | |
| 4,1 | ATCC 3315, S. A. Waksman | 1957 |
| **Streptomyces diastatochromogenes** (Krainsky) Waksman et Henrici | | |
| 4,2 | CBS (NRRL) | 1959 |
| **Streptomyces exfoliatus** (Waksman et Curtis) Waksman et Henrici | | |
| 5,1 | ATCC 12 627, NRRL kmen B-1237<br>Waksman kmen 3316 | 1959 |
| **Streptomyces fimicarius** (Duché) Waksman | | |
| 6,13 | CBS Duché | 1959 |
| **Streptomyces flaveolus** (Waksman) Waksman et Henrici | | |
| 6,6 | ATCC 3319, S. A. Waksman,<br>*J. Bact.* 1948, **56,** 457. | 1957 |
| **Streptomyces flavus** (Krainsky) Waksman et Henrici | | |
| 6,3 | ATCC 3369, S. A. Waksman | 1957 |
| **Streptomyces flocculus** (Duché) Waksman | | |
| 6,12 | CBS | 1959 |
| **Streptomyces fradiae** (Waksman et Curtis) Waksman et Henrici | | |
| 6,9 | IFO 3439, kmen NRRL B 1195 | 1958 |



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| | | |
|---|---|---|
| 6,10 | IFO 3360, kmen 251 Okami | 1958 |
| 6,11 | IFO 3123 | 1958 |
| **Streptomyces gelaticus** (Waksman) Waksman et Henrici | | |
| 7,1 | ATCC 3323, S. A. Waksman, | 1958 |
| **Streptomyces griseus** (Krainsky) Waksman et Henrici | | |
| 7,7 | ATCC 10137<br>S. A. Waksman, kmen 4 získán ze km. 3463, který jest původ. km., produkující streptomycin. *Proc. Soc. Exptl. Biol. and Med.* 1944 **55**, 66. | 1958 |
| 7,8 | Kmen Waksman 3475 CBS<br>produkce streptomycinu | 1957 |
| **Streptomyces griseocarneus** Grundy, Whitman, Hanes et Sylvester | | |
| 7,11 | IFO 3387, kmen NRRL B-1068 | 1959 |
| **Streptomyces griseoflavus** (Krainsky) Waksman | | |
| 7,13 | CBS Ciferri | 1959 |
| **Streptomyces griseolus** (Waksman) Waksman et Henrici | | |
| 7,10 | ATCC 3325, S. A. Waksman | 1957 |
| **Streptomyces griseoluteus** Umezawa et al. | | |
| 7,12 | ATCC 12768, Y. Okami, kmen P 37,<br>Produkce griseolutinu, *J. Antibiotic. Japan*, 1952, **4**, 477. | 1959 |
| **Streptomyces chrysomallus** Lindenbein | | |
| 9,1 | CBS Waksman | 1959 |
| **Streptomyces hygroscopicus** (Jensen) Waksman | | |
| 8,1 | CBS | 1959 |
| **Streptomyces intermedius** (Krüger emend. Wollenweber) Waksman | | |
| 10,1 | ATCC 3329, S. A. Waksman | 1958 |
| **Streptomyces lavendulae** (Waksman et Curtis) Waksman et Henrici | | |
| 13,2 | ATCC 8664, S. A. Waksman, kmen 3440,<br>produkce streptothricinu | 1959 |
| **Streptomyces lipmanii** (Waksman et Curtis) Waksman | | |
| 13,3 | CBS Waksman et Curtis | 1959 |
| **Streptomyces microflavus** (Krainsky) Bergey et al. | | |
| 14,1 | ATCC 3332, S. A. Waksman | 1958 |
| **Streptomyces odorifer** (Rullman emend. Lachner-Sandoval) Waksman | | |
| 16,4 | ATCC 6246, S. A. Waksman | 1958 |
| **Streptomyces olivaceus** (Waksman) Waksman et Henrici | | |
| 16,1 | ATCC 3335, S. A. Waksman | 1957 |
| 16,2 | VÚRV | 1956 |
| 16,3 | BÚ ČSAV | 1956 |
| **Streptomyces olivochromogenes** (Bergey et al) Bergey et al. | | |
| 16,5 | ATCC 3336, S. A. Waksman | 1958 |
| **Streptomyces parvus** (Krainsky) Waksman et Henrici | | |
| 17,3 | IFO 3388, kmen NRRL B-1255 | 1959 |



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**Streptomyces purpeochromogenes** (Waksman et Curtis) Waksman et Henrici
17,2 ATCC 3343, S. A. Waksman 1958

**Streptomyces phaeochromogenes** (Conn) Bergey et al.
17,4 ATCC 3338, S. A. Waksman, produkce tyrosinázy. 1959

**Streptomyces rimosus** Sobin, Finlay et Kane
18,3 IFO 3390 kmen NRRL B-2234. 1958

**Streptomyces roseochromogenes** (Jensen) Bergey et al.
18,4 ATCC 3347, S. A. Waksman 1958
Actinomyces roseus.

**Streptomyces ruber** (Krainsky) Bergey et al.
18,1 ATCC 3348, S. A. Waksman 1957

**Streptomyces rutgersensis** (Waksman et Curtis) Waksman et Henrici
18,5 ATCC 3350, S. A. Waksman 1958

**Streptomyces scabies** (Thaxter) Waksman et Henrici
19,1 ATCC 3352, S. A. Waksman 1958

**Streptomyces sulphureus** (Gasp.)
19,2 ATCC 3007, S. A. Waksman 1958

**Streptomyces venezuelae** Ehrlich et al. 1959
22,6 Glaxo Lab. C. 488

**Streptomyces verne** (Waksman et Curtis) Waksman et Henrici
22,7 ATCC 3353, S. A. Waksman 1959

**Streptomyces viridis** Millard et Burr
22,3 ATCC 3372, S. A. Waksman 1957

**Streptomyces viridochromogenes** (Krainsky) Waksman et Henrici
22,4 ATCC 3356, S. A. Waksman 1957

**Nocardia corallina** (Bergey et al.) Bergey et al.
53,1 ATCC 4273
Bacillus mycoides corallinus Hefferan Serratia corallina Bergey et al. (aj. syn.)

**Nocardia globerula** (Gray) Waksman et Henrici 1948
57,1 Syn. Mycobacterium globerulum Gray Proactinomyces globerulus Waksman et Hen.

**Proactinomyces actinoides** (Th. Smith) Krasilnikov
61,1 VÚRV 1957

**Proactinomyces gabritschewski** (Berestnev) Krasilnikov
67,1 VÚRV

**Streptosporangium roseum** Couch 1955
718,1 Couch, John N., Dept. of Botany, University of North Carolina. *Jour. Eliska Mitchell Scientific Soc.*, **71,** 1955, 148.



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# A. KMENY K MIKROBIOLOGICKÝM TESTŮM

## A/1. STANOVENÍ AMINOKYSELIN*)

| | Escherichia coli 427 | Escherichia coli 193 | Escherichia coli 428 | Escherichia coli 430 | Lactobacillus casei 227 | Lactobacillus casei 226 | Lactobacillus delbrückii 231 | Lactobacillus fermenti 233 | Lactobacillus plantarum 449 (L. arabinosus 17-5) | Leuconostoc citrovorum 253 | Leuconostoc mesenteroides 320 | Streptococcus faecalis 308 (S. lactis R.) | Streptococcus faecalis 426 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alanin | | | | | | | | | | + | | | |
| Arginin | + | + | | | + | | | | | | + | + | |
| Cystin | | | | | | | | | + | | + | | |
| Fenylalanin | | | | | + | + | | | + | | + | | |
| Glycin | | | | | | | | | | + | + | | |
| Histidin | | | | | | | | + | | | + | | |
| Isoleucin | | | | | + | | | | + | | + | | |
| Kys. aspar. | | | | | | + | + | | | | + | | |
| Kys. glutam. | | | | | + | | + | | + | | + | + | |
| Leucin | | | | | + | | | | + | | + | | |
| Lysin | | | | | | | | | + | | + | | |
| Methionin | | | + | | | | | + | + | | + | + | |
| Ornithin | | | | + | | | | | | | | | |
| Prolin | | | | | | | | | | | + | | |
| Serin | | | | | + | + | + | | | | + | | |
| Threonin | | | | | | | | + | | | + | | + |
| Tryptofan | | | | | + | | | | + | | + | + | |
| Tyrosin | | | | | + | + | | | + | | + | | |
| Valin | | | | | + | | | | + | | + | + | |

*) viz též B/2 Produkční mikroorganismy, kyseliny, alkoholy . . . dekarboxylásy pro stanovení.



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## A/2. STANOVENÍ ANTIBIOTIK

**Aktidion (cykloheximid)**
Saccharomyces cerevisiae 321/13, 14

**Aureomycin** viz **chlortetracyklin**

**Bacitracin**
Micrococcus flavus 392
Streptococcus pyogenes 310

**Carbomycin (Magnamycin)**
Bacillus subtilis 425

**Chlortetracyklin**
Bacillus cereus 154, 424
Bacillus subtilis 425
Staphylococcus aureus 395

**Erythromycin**
Bacillus subtilis 425
Staphylococcus aureus 395

**Neomycin**
Staphylococcus aureus 395

**Nisin**
Streptococcus cremoris 421

**Oxytetracyklin**
Bacillus cereus 424
Staphylococcus aureus 395

**Puromycin (Achromycin)**
Bacillus cereus 424

**Penicilin**
Bacillus subtilis 170
Staphylococcus aureus 395

**Streptomycin**
Bacillus circulans 155
Bacillus megatherium 159
Bacillus subtilis 425
Serratia marcescens 211

**Streptothricin**
Bacillus subtilis 170

**Terramycin** viz **oxytetracyklin**

**Viomycin (Viocin)**
Bacillus subtilis 425

## A/3. STANOVENÍ VITAMINŮ

***p*-Aminobenzoová kyselina**
Acetobacter suboxydans 124, 126
Lactobacillus plantarum 449
(L. arabinosus 17-5)
Rhodotorula aurantiaca 812/1

**Biotin**
Lactobacillus casei 227
Lactobacillus plantarum 449
Saccharomyces cerevisiae 321/14
Saccharomyces cerevisiae var.
elipsoideus 322/10
Saccharomyces delbrueckii Lindner,
var. mongolicus 0322/2
Schizosaccharomyces versatilis 223/3

**Listová kyselina**
Lactobacillus casei 227
Streptococcus faecalis 308

**Inositol**
Saccharomyces carlsbergensis 0323/1,
0323/2
Saccharomyces cerevisiae 321/14, 321/15
Schizosaccharomyces pombe 221
Schizosaccharomyces versatilis 223/2

**Nikotinová kyselina**
Acetobacter suboxydans 124
Candida pseudotropicalis 625/6
Lactobacillus casei 227
Lactobacillus plantarum
(L. arabinosus 17-5) 449
Leuconostoc mesenteroides 312
Saccharomyces fragilis 326/6
Saccharomyces marxianus 00327/1
Schizosaccharomyces versatilis 223/3

**Pantothenová kyselina**
Acetobacter suboxydans 124
Lactobacillus casei 227
Lactobacillus plantarum
(L. arabinosus 17-5) 449
Saccharomyces carlsbergensis 0323/1
Saccharomyces cerevisiae 321/14, 321/15,
321/17



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Schizosaccharomyces versatilis 223/3

**Riboflavin**
Lactobacillus casei 227
Leuconostoc mesenteroides 450

**Thiamin**
Lactobacillus fermenti 233
Leuconostoc mesenteroides 312
Kloeckera apiculata 661/4, 661/5
Rhodotorula aurantiaca 812/1
Saccharomyces bisporus 00326
Schizosaccharomyces versatilis 223/3

**Thiamin + pyrimidin**
Pichia fermentans 334/2

**Thiamin + thiazol**
Endomyces magnusii 211

**Vitamin $B_{12}$**
Escherichia coli 429
Lactobacillus leichmannii 244

**Vitamin $B_6$**
Saccharomyces bisporus 00326

**Pyridoxal**
Lactobacillus casei 227

**Pyridoxal** a **pyridoxamin**
Streptococcus faecalis (lactis R) 308

**Pyrodoxal, pyridoxamin** a **pyridoxin**
Saccharomyces carlsbergensis 0323/1 (Saccharomyces cerevisiae 321/14, 321/15)

## A/4. RŮZNÁ STANOVENÍ

**Anorganické ionty**

**Draslík K**
Lactobacillus casei 227

**Mangan v biolog. materiálu**
Bacillus subtilis 425

**Citrovorum faktor**
Leuconostoc citrovorum 253

**Cytosin**
Lactobacillus brevis 220

**Lipoová kyselina** (manometricky)
Streptococcus faecalis 446

**Orotová kyselina**
Lactobacillus bulgaricus 224

**Pantenol**
Acetobacter suboxydans 127

**Thymidin**
Lactobacillus leichmanii 244

**Thymin**
Escherichia coli 383

**Uracil**
Lactobacillus brevis 220

**Woolley-ův růstový faktor**
Streptococcus pyogenes 309



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# B. PRODUKČNÍ MIKROORGANISMY

## B/1. ANTIBIOTIKA

**Aktinomycin**
Streptomyces antibioticus 1,5

**Aktinomycin C**
Actinomyces chrysomallus 9,2; 9,3

**Aktinomycin I**
Actinomyces olivaceus 16,7

**Aktinomycin X**
Actinomyces fradiae 6,16

**Gramicidin**
Bacillus brevis 153

**Granaticin**
Actinomyces olivaceus 16,8

**Griseolutin**
Streptomyces griseoluteus 7,12

**Narbomycin**
Actinomyces olivaceus 16,9

**Nisin**
Streptococcus lactis 451, 452, 453

**Polymyxin**
Bacillus polymyxa 163

**Streptomycin**
Streptomyces griseus 7,6; 7,7; 7,8

**Streptothricin**
Streptomyces lavendulae 13,2

**Subtilin**
Bacillus subtilis 425

**Oxytetracyklin**
Streptomyces rimosus 18,3

**Tyrocidin**
Bacillus brevis 153

## B/2. KYSELINY, ALKOHOLY, ENZYMY A JINÉ LÁTKY

**Acetylasparagová kyselina**
Bacterium cadaveris 178

**6-0-acetyl-D-glukopyranosa**
Bacillus megaterium 160

**Acetylcholin**
Lactobacillus plantarum 248

**Amyláza** (bakteriální)
Bacillus polymyxa 166

**2,3-butylenglykol**
Aerobacter aerogenes 143

**Dekarboxylázy pro stanovení**
**argininu** Escherichia coli 193
**lysinu** Bacterium cadaveris 178
**tyrosinu** Streptococcus faecalis 308

**Dextran**
Leuconostoc mesenteroides 315

**Folinová kyselina z kyseliny listové**
Lactobacillus casei 227

***d*-Glutamová kyselina**
Bacillus subtilis 169

**Histamin**
Aerobacter aerogenes 140

**Iodinin**
Pseudomonas iodinum 210

**5-ketoglukonová kyselina**
a **2-ketoglukonová kyselina**
Acetobacter gluconicus 112
Acetobacter suboxydans 124
Acetobacter kuetzingianus 343



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Pseudomonas ovalis 290

**Marcescin**
Serratia marcescens 360

***d*-mléčná kyselina**
Bacillus coagulans 156
Lactobacillus casei 226, 227
Streptococcus lactis 302

***l*-mléčná kyselina**
Lactobacillus delbrueckii 232
Streptococcus lactis 301

**Oxydace**

**fenolu v odpadních vodách**
Phenolbacterium sp. 401, 402

**kapronové kyseliny**
Bacillus sphaericus 416

**kreatininu**
Arthrobacter ureafaciens 181

**riboflavinu na lumichrom**
Pseudomonas riboflavina 292

**steroidů**
Corynebacterium mediolanum 185

**Riboflavin**
Ashbya gossypii 401
Bacillus megaterium 160
Eremothecium ashbyii 402
Candida krusei 0660

***l*-Sorbosa z *d*-sorbitu**
Acetobacter suboxydans 124

**Thiamináza**
Bacillus thiaminolyticus 448

**Transformace steroidů**
Bacillus megaterium 160

**Trimethylenglykol**
Escherichia freundii 327

**Tyrosináza**
Streptomyces phaeochromogenes 17,4

**Vitamin $B_{12}$**
Bacillus megaterium 160
Propionibacterium freudenreichii 268

## RŮZNÁ POUŽITÍ

**Lysozym** (kmen pro stanovení)
Micrococcus lysodeicticus 393

**Koeficient trávení bílkovin**
Pseudomonas aeruginosa 277

**Kmen pro testování sterility**
Bacillus subtilis 170

**Tvorba osmotických membrán**
Acetobacter xylinum 336



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# PŘEHLED ZKRATEK POUŽITÝCH V KATALOGU

ANA — Sektor mikrobiologii Akademii nauk Armjanskoj SSR, Jerevan, SSSR.
ATCC — American Type Culture Collection, Washington, D. C.
BÚČSAV — Biologický ústav Československé akademie věd, Praha.
CBS — Centraalbureau voor Schimmelcultures Baarn, Netherlands.
ETH — Institut für spezielle Botanik, Eidgenössische Technische Hochschule, Zürich, Schweiz.
IFO — Institute for fermentation, Osaka, Japan.
IMAN — Institut mikrobiologii ANSSSR, Moskva.
INA — Institut nových antibiotikov, Akademija medicinskich nauk, Moskva.
IZ — Instituto Zimotécnico, Piracicaba, San Pablo, Brasil.
NCIB — National Collection of Industrial Bacteria, Teddington, Middlesex, England.
NCTC — National Collection of Type Cultures, London, England.
NCYC — National Collection of Yeast Cultures, Brewing Industry Research Foundation, Nutfield, Surrey, England.
NRRL — Northern Utilization Research and Development Division, U. S. Department of Agriculture, Peoria, Illinois.
VMP — Laktos, národní podnik, Praha.
VNIISP — Vsesojuznyj naučno-issledovatělskij institut spirtovoj promyšlennosti, Moskva.
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